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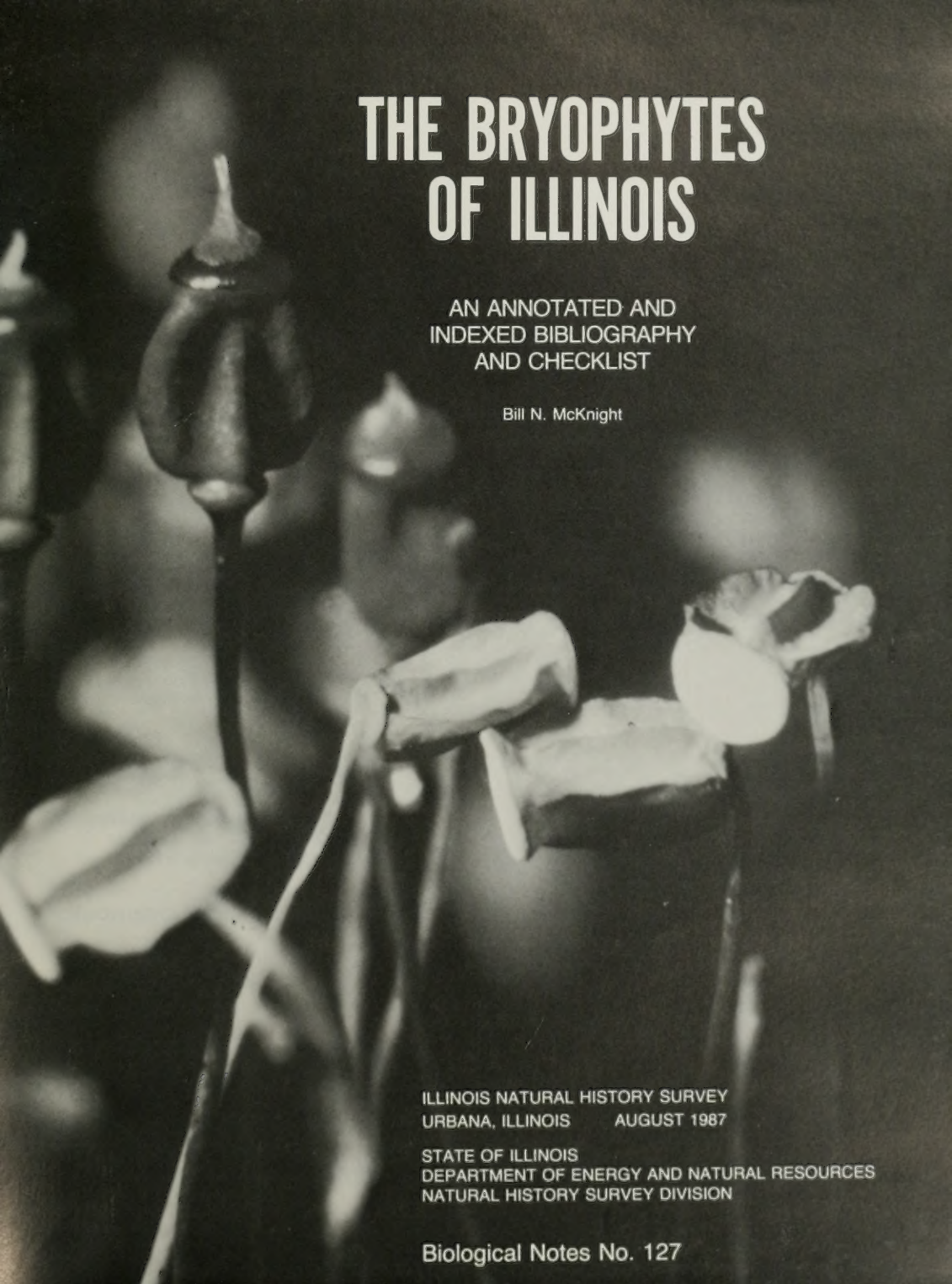

THE BRYOPHYTES OF ILLINOIS

AN ANNOTATED AND INDEXED BIBLIOGRAPHY AND CHECKLIST

Bill N. McKnight

ILLINOIS NATURAL HISTORY SURVEY
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Cover — Bryophyte, *Polytrichum commune*, pictured is approximately five times the actual size. The photo was taken from a slide by the author, Bill N. McKnight. The cover design is by Lloyd Le Mere.

CONTENTS

INTRODUCTION 3

LEGEND 4

FIGURE. State map divided into regions with counties numbered 5

ANNOTATED BIBLIOGRAPHY 6

INDICES

I. Authors 24
II. Chronological Index 25
III. Counties 26
IV. Regions 28
V. Anthocerotae 28
VI. Hepaticae 28
VII. Musci 28
VIII. Sphagnum 28
IX. Anatomy/Developmental Morphology 28
X. Animal/Bryophyte Association 28
XI. Culturing 28
XII. Cytology 28
XIII. Ecology 28
XIV. Fossil 29
XV. Physiology 29
XVI. Reproductive Biology 29
XVII. Revegetation/Succession 29

CHECKLIST

Anthocerotae 29
Hepaticae 29
Musci and Sphagnum 31

SYNONYMS AND INVALID NAMES

Anthocerotae and Hepaticae 36
Musci (including sphagna) 37

TYPES 41

ACKNOWLEDGMENTS 41

THE BRYOPHYTES OF ILLINOIS:
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Bill N. McKnight

The first report of bryological activity in Illinois was von Wied's collections of *Cryphaea inundata* from the Fox and Wabash rivers, White County, in 1832 (Nees von Esenbeck [1834]). Short (1845) noted the lack of bryophytes in the Illinois prairies. The next published reference to Illinois bryophytes was by Sullivant (1856) who also cited von Wied's 1832 collections of *Cryphaea inundata*. Subsequently, in 1859 Brendel listed 27 species of mosses occurring around Peoria, and in the same volume Vasey cited 44 mosses and 1 liverwort from McHenry County. There have been at least 391 other publications relating to Illinois bryophytes since these pioneering works, yet the state bryoflora remains poorly catalogued and studied relative to the vascular plants. The availability of a comprehensive bibliography and checklist should help remedy this disparity. Prior to this compilation, the most complete bibliographies dealing with Illinois bryophytes were included in the historical sketch by Stotler (1979) and the moss checklist constructed by McCleary and Redfearn (1979).

This is an index of the 396 articles dealing with the Illinois bryophytes (hornworts, liverworts, mosses, and sphagna). Each publication is ordered alphabetically by the author's last name and annotated to include pertinent information, especially the number and kinds of taxa treated. Cross-reference indices are provided for authors, publication dates, the counties and regions of Illinois, taxonomic groups, and other categories. Checklists of species and synonyms are also included.

The criteria for including a publication in this bibliography are:

(1) the article must contain information on the bryoflora of Illinois (extant or fossil);

(2) abstracts are included only if they cite the occurrence of a taxon not given elsewhere in a full article;

(3) publications showing only shaded range maps are included even if no specimens were examined or cited; and

(4) theses and dissertations are cited even if they are published separately in their entirety (42 M.S. theses and 22 Ph.D. dissertations are listed).

Omitted from the bibliography are:

(1) publications lacking specific reference to Illinois (i.e., common in eastern North America);

(2) personal communications; and

(3) unpublished reports, lists, and collections.

The articles need not include specimens cited, specimens examined or voucher data, although any publication lacking this information, regardless of discipline, is of limited value. And, as this is intended to be a reference to the bryophytes reported in the literature from Illinois and not of Illinois bryologists (Stotler 1979), a biographical work is included only if it contains significant information about at least one species of the state bryoflora.

The publications are arranged alphabetically, numbered consecutively, and annotated to indicate content. Each annotation contains two sections. The first section includes data on the kind and number of taxa (see Example and Legend). The bracketed integers refer to the number of taxa listed in the publication. The sequencing of the taxonomic groups in the annotations is consistent throughout (Anthocerotae, Hepaticae, Musci, *Sphagnum*), even though each group is not always treated. The bracketed and parenthesized numbers in each annotation refer to the number of taxa listed in the publication.

The second part of the annotation contains a brief description of the content of the publication. Scientific names are listed only if there are ten or fewer or if they are buried in the text of a long or obscure publication. The scientific names are also given for some questionable reports, as indicated [?], and rare taxa. The fact that scientific names are included does not imply that I have studied the specimens or that they have been correctly identified. The number of taxa cited and the names listed are based on the names given in the article which may not represent current nomenclature. This section of the annotation also includes the county or region from which the specimen was obtained or where observed. When more than one county is given, an effort has been made to present the number of taxa in each group from the respective county (see Example). When counties are not listed (e.g., "Peoria area," "southern

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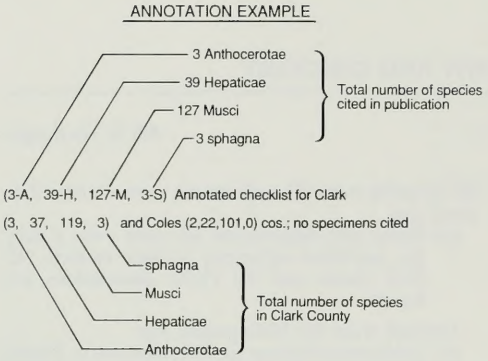
Two or more outside referees recommend each manuscript submitted for publication in the Biological Notes series before it is accepted.



Illinois," "our area," "Illinois"), the citation has been, when possible, ascribed to a region within the state. Accordingly, I have divided the state into five regions (Fig. 1) based on geographic location, geologic history, land use practices, vegetational patterns, and convenience. It was impossible to follow Schwegman's (1973) natural divisions scheme in delimiting regions given the absence of specific location information in many publications. Finally, the acronym of the herbarium housing the vouchers is often included (see Legend).

The following indices are provided at the end of this publication to further enhance its usefulness.

1. **AUTHOR INDEX.** An alphabetical listing of all 250 authors with the numbers corresponding to all publications by that author.
2. **CHRONOLOGICAL INDEX.** An annual chronological listing from 1834 to 1986 followed by the publications corresponding to each year.
3. **COUNTY INDEX.** An alphabetical list of the 102 Illinois counties and the publications pertaining to each.
4. **REGION INDEX.** A list containing publications dealing with each of the five regions (Fig. 1) for those works not already listed under COUNTY INDEX.
5. **SUBJECT INDICES.** A list of publications dealing with each taxonomic group and selected topics (anatomy/developmental morphology, animal/bryophyte association, culturing, cytology, ecology, fossil, physiology, reproductive biology, revegetation/ succession).

An annotated checklist of bryophytes reported from Illinois is presented at the end of this publication; both extant and fossil reports are included in this list. A total of 512 kinds of bryophytes (3 hornworts, 118 liverworts, 366 mosses, and 25 sphagna) have been reported. Following each taxon are the numbers corresponding to the publications in which it is reported. The nomenclature follows Crum and Anderson (1981) and Crum (1983) for the mosses and sphagna (with a couple of exceptions noted in the preface to the index), and Stotler and Crandall-Stotler (1977) for the hornworts and liverworts. A list of synonyms for the taxa reported in the literature is also included. Two-thirds of the names listed in the synonym index are not included in the most recent checklists for liverworts (Stotler and Crandall-Stotler 1977) or mosses (Crum, Steere, and Anderson 1973).

While bryophytes are almost totally devoid of economic importance they are nevertheless very interesting organisms that provide a challenging array of potential research projects, as well as aesthetic enjoyment to the critical observer. It should be obvious from looking at the following indices that there is still much to be learned about the bryophytes of Illinois. This publication will be useful in assessing the amount and type of bryological activity, determining distributional records, and generating interest in the Illinois bryoflora. Because of the scope of this bibliography, some citations may have been omitted. You are invited to bring such oversights to my attention.

LEGEND

HERBARIUM ACRONYMS CITED
(according to Holgren, Keuken, and Schofield 1981)

ABSH = American Bryological and Lichenological Society Herbarium, Carbondale, IL
CANM = Canadian National Museum, Ottawa
DUKE = Duke University, Durham, NC
EIU = Eastern Illinois University, Charleston
F = Field Museum of Natural History, Chicago
ILL = University of Illinois, Urbana
ILLS = Illinois Natural History Survey, Champaign
ISM = Illinois State Museum, Springfield
MICH = University of Michigan, Ann Arbor
MWI = Western Illinois University, Macomb
NY = New York Botanical Garden, Bronx, NY
SIU = Southern Illinois University, Carbondale
SMS = Southwestern Missouri State University, Springfield
UBC = University of British Columbia, Vancouver, Canada
US = United States National Herbarium, Washington, DC
WARK = A.L. Kibbe Life Science Station, Warsaw, IL
WIU = Western Illinois University, Macomb

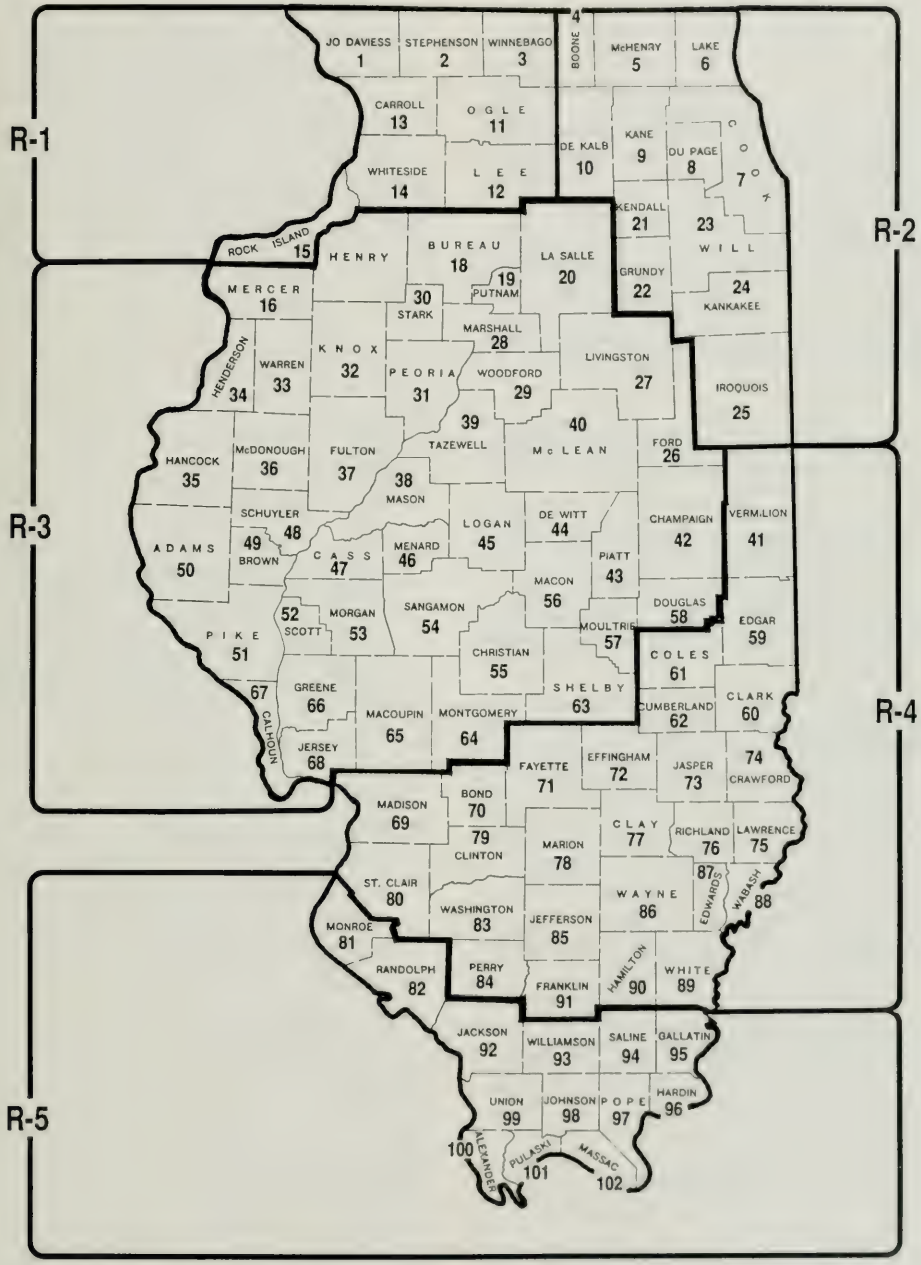


Fig. 1 — State map with counties named and numbered. The five regions (R) are divided by bold lines and numbered

LITERATURE CITED

(for references not included in comprehensive bibliography)

Crum, H.A., W.C. Steere, and L.E. Anderson. 1973. A new list of mosses of North America north of Mexico. Bryologist 76:85-130.

Holmgren, P.K., W. Keuken, and E.K. Schofield. 1981. Index Herbariorum. 7th ed. Regnum Vegetabile 106:[vi] + 452 p.

Schwegman, J.E. (principal author). 1973. Comprehensive plan for the Illinois Nature Preserves System. Part 2. The natural divisions of Illinois. Illinois Nature Preserves Commission, Rockford. 32 p.

Stotler, R., and B. Crandall-Stotler. 1977. A checklist of the liverworts and hornworts of North America. Bryologist 80:405-428.

ABBREVIATIONS USED IN ANNOTATIONS

A = Anthocerotae (hornworts)
H = Hepaticae (liverworts)
M = Musci (mosses, excluding the sphagna)
R = Region
S = *Sphagnum* (peat mosses, sphagna)
[n,n,n,n] = number of species in publication from Illinois
(n,n,n,n) = number of taxa per county in a multiple county citation

ANNOTATED BIBLIOGRAPHY FOR LITERATURE TREATING ILLINOIS BRYOPHYTES
(Legends for abbreviations used are included on page 4.)

1. **Ammons, N. 1940. A manual of the liverworts of West Virginia. American Midland Naturalist 23:1-164.** [2-H] *Frullania brittoniae* and *Plectocolea fossombronioides* from Illinois, no counties listed; no specimens cited.

2. **Anderson, L.E. 1943. The distribution of *Tortula pagorum* (Milde) De Not. in North America. Bryologist 46:47-66.** [1-M] Page 55, ". . . it might be expected to occur in southern Illinois." R-5; (p. 61) also searched for unsuccessfully in Cook Co. (dot map).

3. **Anderson, L.E., and R.H. Zander. 1973. The mosses of the southern Blue Ridge Province and their phytogeographic relationship. The Journal of the Elisha Mitchell Scientific Society 89:15-60.** [13-M] *Anacamptodon splachnoides, Bruchia texana, Desmatodon plinthobius, Dicranum polysetum, Entodon macropodus, Helodium paludosum, Herzogiella turfacea, Isopterygium distichaceum, Micromitrium austinii, Polytrichum ohioense, Scopelophila ligulata, Trematodon longicollis,* and *Ulota crispa*; no counties listed; no specimens cited.

4. **Anderson, R.C., and J. White. 1970. A cypress swamp outlier in southern Illinois. Transactions of the Illinois State Academy of Science 63:6-13.** [M] Moss spp. from Johnson Co.; "Mosses of various species have the highest frequencies on the tree trunks (94.2%) and on the fallen logs (98.3%)"; no vouchers mentioned.

5. **Ando, H. 1972. Distribution and speciation in the genus *Hypnum* in the Circum-Pacific region. Journal of the Hattori Botanical Laboratory 35:68-98.** [7-M] *Brotherella tenuirostris, Hypnum curvifolium, H. fertile, H. imponens, H. lindbergii, H. pallescens,* and *H. pratense* from Illinois, shaded range maps; no specimens cited; p. 72,75,77,80,81,84,86.

6. **Andrews, A.L. 1913. Sphagnaceae. North American Flora 15(1):1-31.** [1-S] *Sphagnum compactum* from Illinois, no counties listed; no specimens cited.

7. **Andrews, A.L. 1959. Taxonomic notes. XIV. The dioicous form of *Mnium cuspidatum*. Bryologist 62:230-233.** [1-M] Five packets from Woodford Co., collected 21 May 1953 by V.H. Chase.

8. **Andrus, R.E. 1974. The sphagna of New York state. Ph.D. dissertation. State University of New York, Syracuse. xviii + 421 p.** [4-S] *Sphagnum girgensohnii, S. lescurii, S. squarrosum,* and *S. teres* from Illinois, no counties listed; no specimens cited.

9. **Andrus, R.E. 1979. *Sphagnum bartlettianum* in the southeastern United States. Bryologist 82:198-203.** [3-S] *S. rubellum, S. subtile,* and *S. warnstorfii* from R-2, shaded range maps (p. 202); no specimens cited.

10. **Andrus, R.E. 1979. *Sphagnum subtile* (Russow) Warnst. and allied species in North America. Systematic Botany 4:351-362.** [3-S] *S. nemoreum* and *S. rubellum* on shaded range map from R-2; no specimens cited; *S. subtile* from Cook and Lake cos., specimens cited; comments on niche variations and morphology.

11. **Andrus, R.E. 1980. A large range extension for *Sphagnum henryense*. Bryologist 83:239-242.** [1-S] From Cook Co.; specimen cited (ILL).

12. **Andrus, R.E. 1980. Sphagnaceae (peat moss family) of New York State. Contributions to the Flora of New York State III. New York State Museum Bulletin No. 442. vi + 89 p.** [18-S] From Illinois, no counties listed; no specimens cited; illustrations, keys, descriptions, tables, and ecological information; *Sphagnum angustifolium, S. centrale, S. contortum, S. cuspidatum, S. fimbriatum, S. fuscum, S. girgensohnii, S. lescurii, S. nemoreum, S. platyphyllum, S. recurvum, S. rubellum, S. squarrosum, S. subsecundum, S. subtile, S. teres, S. trinitense,* and *S. warnstorfii.*

13. **Anonymous. 1904. Bryologist 7:82.** [2-M] *Atrichum angustatum* and *Entodon seductrix* from Illinois offered by Agnes Chase, no counties listed.

14. **Anonymous. 1905. Bryologist 8:56.** [1-M] *Dicranella varia* from Illinois, offered by N.L.T. Nelson, no counties listed.

15. **Anonymous. 1907. Bryologist 10:95-96.** [3-M] *Ceratodon purpureus, Ditrichum pallidum,* and *Physcomitrium turbinatum* all fruiting from Illinois, offered by F.E. McDonald, no counties listed.

16. **Anonymous. 1908. Bryologist 11:96.** [1-S] *Sphagnum compactum* from Cook Co., offered by W.W. Calkins.

17. **Anonymous. 1909. Bryologist 12:15.** [2-M, 1-S] *Bryum caespiticium, Polytrichum commune,* and *Sphagnum compactum* from Cook Co.; no specimens cited.

18. Anonymous. 1909. Bryologist 12:41,74. [2-M] *Barbula unguiculata* and *Leskea polycarpa* (corrected to *L. obscura* on p. 74) from Cook Co., offered by W.W. Calkins.

19. Anonymous. 1909. Bryologist 12:57-58. [2-M] *Polytrichum commune* var. *uliginosum* and *P. ohioense* from Cook Co., offered by W.W. Calkins.

20. Anonymous. 1909. Bryologist 12:94. [1-M, 2-S] *Anomodon attenuatus*, *Sphagnum acutifolium*, and *S. compactum* from Cook Co., offered by W.W. Calkins.

21. Anonymous. 1909. Bryologist 12:111. [3-M] *Amblystegium noterophilum* from Cook Co., offered by E.J. Hill; *Funaria hygrometrica* and *Hypnum aduncum gracilescens* from the Peoria area (R-3), offered by F.E. McDonald.

22. Anonymous. 1910. Bryologist 13:48. [3-M] *Barbula fallax* and *Dicranella varia* from Illinois offered by W.W. Calkins; *Rhynchostegium serrulatum* from Illinois, offered by F.E. McDonald; no counties listed.

23. Anonymous. 1910. Bryologist 13:124. [1-M] *Thelia asprella* from Illinois, offered by W.W. Calkins; no counties listed.

24. Anonymous. 1911. Bryologist 14:24,92. [2-M] *Amblystegium juratzkanum* and *Orthotrichum strangulatum* from Illinois, offered by W.W. Calkins, no counties listed.

25. Anonymous. 1918. Bryologist 21:68. [3-M] *Catharinea angustata*, *Dicranella heteromalla*, and *D. varia* from Illinois, offered by F.E. McDonald, no counties listed.

26. Anonymous. 1919. Bryologist 22:76. [1-M] *Gymnostomum curvirostre* from Illinois, no counties listed; no specimen cited.

27. Armstrong, P.K. 1981. Bryophytes. Tiny treasures of the plant world. Morton Arboretum Quarterly 17:17-30. [1-A, 1-H] *Anthoceros laevis* from "our area" (R-2); *Conocephalum conicum* from La Salle Co.; no specimens cited.

28. Armstrong, P.K. 1983. Bryophytes of the Morton Arboretum. Morton Arboretum Quarterly 19:17-32. [8-H, 26-M] From Du Page Co.; habitat information, excellent black and white photographs; *Anastrophyllum michauxii* [?] and *Anomodon viticulosus* [misdetermined]; no specimens cited; vouchers at MOR.

29. Artist, R.C. 1934. Stratigraphy and preliminary fossil pollen analysis of a Lake County, Illinois, bog. M.S. thesis. Northwestern University, Evanston, Illinois. 36 p. [2-M, 1-S] *Aulacomnium palustris*, *Sphagnum*, and *Stereodon pratensis*, ecological information, no specimens cited but mentioned from other works; "*Sphagnum* sent to R.S. Williams, identifications not yet received."

30. Artist, R.C. 1936. Stratigraphy and preliminary fossil pollen analysis of a Lake County, Illinois, bog. Butler University Botanical Studies 3:191-198. [1-M, 1-S] *Drepanocladus Wilsoni* [sic] (in lower part of deposit) and *Sphagnum*; no specimens cited; ecological information.

31. Arzeni, C.B. 1947. Some bryophytes of Coles and Clark counties. Transactions of the Illinois State Academy of Science 40:44-49. [3-A, 39-H, 127-M, 3-S] Annotated checklist for Clark Co. (3,37,119,3) and Coles Co. (2,22,101,0); a very thorough study but some of the reports are questionable (i.e., *Calliergonella cuspidata*, *Campylium stellatum*, *Dicranum undulatum*, and *Thuidium abietinum*).

32. Arzeni, C.B. 1977. Mosses and liverworts. Eastern Illinois University, Charleston. [v] + 12 p. + 51 pls. [3-A, 23-H, 75-M, 4-S] Illustrated manual for use in local flora classes at EIU; taxa occurring in "our area," east central Illinois (R-4); descriptions, key, and habitat information; no index; no specific localities given; no specimens cited.

33. Arzeni, C.B. 1980. Mosses and liverworts. Eastern Illinois University, Charleston. vii + 253 p. [3-A, 57-H, 89-M, 4-S] Illustrated manual for use in local flora classes at EIU; most of the taxa are listed as occurring in "our area;" however, only the list of 20 endangered or threatened species (p. i) are specifically cited from east central Illinois (R-4); descriptions, key, and habitat information; no specific localities given; no specimens cited.

34. Arzeni, C.B., and B.N. McKnight. 1976. *Buxbaumia aphylla*, a new report for Illinois. Bryologist 79:266. [6-H, 4-M] From Pope Co.; in association with *Atrichum angustatum*, *Bazzania tricrenata*, *Bryoandersonia illecebra*, *Calypogeia* sp., *Cephaloziella* sp., *Dicranella heteromalla*, *Lophocolea minor*, *Odontoschisma prostratum*, and *Scapania nemorosa*; only *Buxbaumia* vouchered (EIU, SIU).

35. Arzeni, C.B., and D.J. Royse. 1975. Mosses and liverwort. Outdoor Illinois 14(2):46-48. [3-H, 12-M] From Clark Co.; general information about some locally common bryophytes; no vouchers mentioned.

36. Atwell, R.S. 1914. The appearance of polar bodies in the spermogenous tissue of *Ricciocarpus natans* (L.) Corda. Bulletin of the Torrey Botanical Club 41:333-336. [1-H] From Cook Co. during June and July; no specimen cited.

37. Austin, C.F. 1869. Characters of some new Hepaticae (mostly North American), together with some notes on a few imperfectly described species. Proceedings of the Academy of Natural Sciences of Philadelphia 1869:218-234. [1-H] *Lophocolea Hallii* [sic] from Illinois; no counties listed (p. 222); collected by E. Hall; no specimen cited.

38. Austin, C.F. 1872. New Hepaticae. Bulletin of the Torrey Botanical Club 3(3):9-18. [1-H] *Jungermannia Sullivantiae* [sic] from Illinois (p. 12); collected by E. Hall, no counties listed, no specimen cited.

39. Austin, C.F. 1880. Bryological notes and criticisms. Bulletin of the Torrey Botanical Club 7:2-8. [1-M] *Weisia Wolfii* [sic] (=*W. viridula*) from Illinois (Fulton Co.); no male plants found.

40. Barkley, E.E. 1940. The influence of environmental factors on the growth, development, and structure of the gametophyte of *Funaria hygrometrica*. M.S. thesis. The University of Chicago. 27 p. [1-M] Page 2, capsules collected 1/2 mile west of Burns' Ditch Bridge on U.S. Route 12 in June 1937 by Paul Voth, but no voucher mentioned; culturing information.

41. Barkley, E.E. 1941. Gemmae of *Funaria hygrometrica*. Transactions of the Illinois State Academy of Science 34:102-105. [1-M] Collected June 1937 from R-2; no specimen cited.

42. Barnes, C.R. 1887. A revision of the North American species of *Fissidens*. I. Botanical Gazette 12:1-8, 25-32. [3-M] *F. grandifrons* from Illinois (Wolf, *Brendel*), *F. hallianus* from Menard Co. (Athens, *Hall*), and *F. obtusifolius* from Fulton Co. (Canton, *Wolf*); p. 7,28,29.

43. Barnes, C.R. 1897. Analytic keys to the genera and species of North American mosses. Revised and extended by F.D. Heald. Bulletin of the University of Wisconsin, Science Series 1:x + 157-368. [4-M] *Amblystegium hygrophyllum* and *Bryum cuspidatum* from Illinois, no counties listed; type locality of *Dicranum bonjeanii alatum* (Cook); *Orthotrichum speciosum* (Winnebago); no specimens cited

44. Best, G.N. 1898. *Fabroleskea*, new genus of mosses. Bulletin of the Torrey Botanical Club 25:108-109. [1-M] Type locality of *F. Austini* [sic] from Illinois collected by Wolf, no county listed; no specimen cited.

45. Blair, M.C. 1918. Studies in the morphology and embryology of *Reboulia hemisphaerica* (L.) Raddi. M.S. thesis. Northwestern University, Evanston, Illinois. 53 p. + pl. XII. [1-H] From Jo Daviess Co. (Miner's Gulch), collected

23 September 1917 and 14 April 1918; no mention of voucher; "This region . . . affords a fine environment for many species of bryophytes."

46. Blair, M.C. 1922. Sporogenesis in *Reboulia hemisphaerica* (L.) Raddi. Ph.D. dissertation. Northwestern University, Evanston, Illinois. 39 p. + pl. IV (52 fig.). [1-H] From Jo Daviess Co.; no mention of voucher; very similiar to Blair (1918); review of sporogenesis literature.

47. Blair, M.C. 1926. Sporogenesis in *Reboulia hemisphaerica*. Botanical Gazette 81:377-400 + pls. XXX, XXXI. [1-H] From Jo Daviess Co.; no mention of voucher.

48. Boewe, G.H., S.H. Barrick, and S.M. Hague. 1935. Mosses from Apple River Canyon, Mississippi Palisades and White Pine Forest State Parks. Transactions of the Illinois State Academy of Science 28:83-84. [63-M] Checklist for Carroll (36), Jo Daviess (40), and Ogle (24) cos.; collected in the fall of 1934, but no specimens cited.

49. Bowers, M.C. 1966. New bryophytes for Colorado. Bryologist 69:368-369. [1-M] *Mnium trichomanes* reported in U.S. from Illinois by Andrews (1959); no specimen cited.

50. Brassard, G.R. 1984. The moss genus *Timmia*. 3. Sect. *Timmia*. Lindbergia 10:33-40. [1-M] *T. megapolitana* var. *megapolitana* from Illinois (R-2,3), three to four populations on dot map (p. 38); specimens examined but not cited.

51. Breen, D. 1985. The bryophytes of Fox Ridge State Park, Coles County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. iii + 20 p. [4-H, 68-M] Annotated checklist with specimens cited (EIU), ecological information, frequency; *Funaria americana* (Will) and *Polytrichum* (Lake) from literature; *Bryhnia novae-angliae* [?], *Entodon brevisetus* [?], *Lindbergia brachyptera* [?] "without papillae," *Thuidium abietinum* [?]; contrary to the statement in the Methods Section, B.N. McKnight did not verify all the specimens.

52. Brendel, F. 1859. Additions and annotations to Mr. Lapham's catalogue of Illinois plants. Transactions of the Illinois State Agricultural Society 3:583-587. [27-M] Report of bryophytes from "around Peoria" (R-3) with checklist; no specimens cited.

53. Brendel, F. 1882. Flora Peoriana. Die vegetation im clima von mittel-Illlinois. Természetrajzi Füzetek 5:299-405. [2-A, 17-H, 68-M] Annotated checklist (p. 289-292) of some bryophytes in the Peoria area (R-3) with a list of 4 liverworts and 34 mosses reported by Wolf & Hall in 1878 as yet absent around Peoria; reprinted in English, with additions and changes, in Brendel (1887); printed separately in Budapest (1882) by Buchdrucherei des Franklin-Verein, 107 p., with checklist (p. 91-93).

54. Brendel, F. 1882. Flora Peoriana. A catalogue of plants observed and collected in the vicinity of Peoria, Ill., 1852-1877, by Fred Brendel. The Pharmacist and Chemist 15:263-268, 291-299. [2-A, 17-H, 72-M] Checklist for R-3 (p. 298-299); no specimens cited.

55. Brendel, F. 1887. Flora Peoriana. The vegetation in the climate of middle Illinois. J.W. Franks and Sons, Peoria, Illinois. 89 p. [2-A, 22-H, 78-M] Annotated checklist (p. 65-67) of some bryophytes in the Peoria area (R-3) including a list of 7 liverworts and 39 mosses found by Wolf & Hall in Fulton Co. but not yet observed around Peoria; *Fissidens grandifrons* and *Gymnostomum curvirostrum* [sic] from La Salle Co.; reprinted in English, with some changes, from Brendel (1882).

56. Britton, E.G. 1894. Contributions to American bryology - VI. I. Western species of *Orthotrichum*. Bulletin of the Torrey Botanical Club 21:137-159. [1-M] *O. speciosum* from Winnebago Co. collected by Röll; no specimen cited.

57. Britton, E.G. 1894. Contributions to American bryology - VII. A revision of the genus *Physcomitrium*, with descriptions of five new species. Bulletin of the Torrey Botanical Club 21:189-208 + pls. 197-203. [2-M] *P. acuminatum* from La Salle Co. and from another unspecified location in Illinois, collected independently by J.W. Huett and E. Hall; *P. drummondii*, "Hall's Illinois specimens are probably *P. acuminatum*."

58. Britton, E.G. 1894. Contributions to American bryology, VIII. A revision of the genus *Bruchia*, with descriptions of types, and one new species. Bulletin of the Torrey Botanical Club 21:343-372 + pls. 213-217. [2-M] Page 349, *B. brevicollis* from Illinois collected by Vasey; p. 350, "Dr. Vasey's specimens from Illinois are also immature, so young that they are still acaulescent, the calyptra is only just formed and the capsule is yet a mere thickening of the stout, curved pedicel. The leaves are subpapillose on the back, and specimens preserved in Austin's Herbarium, labeled *B. beyrichiana*, Ringwood, McHenry Co., Ill. collected by Dr. Vasey, are corrected to *B. sullivantii*."

59. Britton, E.G. 1895. Contributions to American bryology - XI. 3. Notes on the genus *Leersia* Hedw. Bulletin of the Torrey Botanical Club 22:447-458 + pls. 248,249. [1-M] *Encalypta ciliata* from Illinois, no counties listed; no specimen cited.

60. Britton, E.G. 1913. Ditrichaceae. North American Flora 15(1):55-67. [2-M] *Bruchia texana* and *Pleuridium alternifolium* from Illinois, no counties listed; no specimens cited.

61. Burnette, D.C. 1981. Bryophytes of Rocky Branch Nature Preserve, Clark County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. v + 107 p. [14-H, 36-M, 2-S] Contains descriptions, ecological information, and dot maps, with vouchers at EIU; *Hookeria acutifolia*, *Nardia lescurii*, *Sphagnum girgensohnii*, *S. palustre*, and *Trichocolea tomentella*; dot map for distribution of each species in Illinois based on literature reports.

62. Calkins, W.W. 1910. Mosses of Cook County, Illinois. Bryologist 13:107-111. [49-M, 2-S] Annotated checklist, but no specimens cited; *Hylocomium triquetrum*, *Sphagnum acutifolium*, and *S. compactum*.

63. Cardot, J., and I. Thériot. 1900. New or unrecorded mosses of North America. I. Botanical Gazette 30:12-24 + pls. 2-5. [1-M] *Phascum cuspidatum* var. *americanum* from Illinois, no county listed; no specimen cited.

64. Cardot, J., and I. Thériot. 1901. New or unrecorded mosses of North America. Bryologist 4:75-76. [1-M] *Phascum cuspidatum* from Illinois, no counties listed; no specimens cited.

65. Cardot, J., and I. Thériot. 1904. New or unrecorded mosses of North America. II. Botanical Gazette 37:363-382 + pls. 16-25. [1-M] *Dicranum alatum* from Illinois, R-3 (*Röll 1888*).

66. Cardot, J., and I. Thériot. 1905. New or unrecorded mosses of North America. Bryologist 8:8-11. [1-M] *Dicranum Bonjeani* [sic] from the Chicago area [probably Cook Co.] by *Röll 1888*.

67. Carothers, Z.B., J.W. Moser, and J.G. Duckett. 1977. Ultrastructural studies of spermatogenesis in the Anthocerotales. II. The blepharoplast and anterior mitochondrion in *Phaeoceros laevis*: later development. American Journal of Botany 64:1107-1116. [1-A] *P. laevis* subsp. *carolinianus* from Johnson Co.; no voucher mentioned.

68. Carvey, K., D.R. Farrar, and D.C. Glenn-Lewin. 1977. Bryophytes and revegetation of coal spoils in southern Iowa. Bryologist 80:630-637. [1-S] Page 635, O'Flaherty *et al.* (1975) reported this species (*Sphagnum fimbriatum*) as new to Illinois. "There it also occurs on a coal seep in McDonough Co."

69. Chamberlin, M.A. 1980. The morphology and development

of the gametophytes of *Fissidens* and *Bryoxiphium* (Bryophyta). M.A. thesis. Southern Illinois University, Carbondale. iii + 59 p. [1-M] *F. taxifolius* from Williamson Co.; culturing regime data with ontological descriptions and illustrations; voucher at SIU.

70. **Cheney, L.S. 1897. North American species of *Amblystegium*. Botanical Gazette 24:236-291 + pls. 11-13.** [1-M] *A. noterophilum* from Illinois (p. 275); no county listed [probably R-2]; no specimen cited, reprinted by The University of Chicago Press, 1897.

71. **Chimney, M.J. 1984. First report of *Ricciocarpus natans* (L.) Corda (Marchantiales:Ricciaceae) from a strip mine impoundment. Transactions of the Illinois State Academy of Science 77:43-44.** [1-H] From Knox Co.; no mention of voucher; water chemistry data for collection site.

72. **Christy, J.A., M.J. Dibben, F.J. Bowers, and R.E. Andrus. 1986. Ten mosses new to Wisconsin. Evansia 3:12-13.** [2-M, 2-S] *Anomodon rugelii, Funaria flavicans, Sphagnum henryense*, and *S. recurvum* from Illinois, no counties listed; from literature, no specimens cited.

73. **Clapp, G.L. 1912. The life history of *Aneura pinguis*. Botanical Gazette 54:177-193.** [1-H] From Chicago area [probably Cook Co.]; no specimen cited; p. 177,178.

74. **Clute, W.N. 1932. Swamp and dune. Published by the author, Indianapolis. 72 p.** [2-M] *Ceratodon purpureus* and *Polytrichum* from Will Co. (p. 7,8,14); no specimen cited.

75. **Conard, H.S. 1959. *Amblystegium*. Bryologist 62:96-104.** [5-M] *A. brevipes* and *A. riparium* (with three unnamed varieties ABBC, ABc, Abc) from Illinois, no counties listed; no specimens cited.

76. **Conard, H.S. 1979. How to know the mosses and liverworts. 2nd ed. Revised by P.L. Redfearn, Jr. Wm.C. Brown Co. Publ., Dubuque, Iowa. xi + 302 p.** [10-H, 29-M, 3-S] Numerous other taxa implied from Illinois, no counties listed; no specimens cited; descriptions, keys, and illustrations.

77. **Cowles, H.C. 1901. The plant societies of Chicago and vicinity. The Geographic Society of Chicago, Bulletin No. 2. 76 p.** [2-H, 3-M, 1-S] *Bryum, Ceratodon, Polytrichum commune, Riccia, Ricciocarpos*, and *Sphagnum* from Cook Co.; extensive patch of *Sphagnum* in extinct oxbow near Starved Rock (La Salle Co.); p. 32,39,41,44.

78. **Cowles, H.C. 1918. Part III. Botany. Pages 129-141 *in* C.O. Sauer, G.H. Cady, and H.C. Cowles (eds.), Starved Rock State Park and its environs. The Geographic Society of Chicago, Bulletin No. 6. x + 148 p.** [1-A, 6-H, 1-M] *Anthoceros, Blasia, Conocephalum, Marchantia, Pellia, Polytrichum, Reboulia*, and *Scapania* from La Salle Co.; no specimens cited.

79. **Crandall-Stotler, B., and K.S. Renzaglia. 1984. Liverworts and hornworts of Garden of the Gods, Shawnee National Forest, Saline County, Illinois. Transactions of the Illinois State Academy of Science 77:45-50.** [2-A, 38-H] Annotated checklist with specimens cited, vouchers at SIU; *Bazzania tricrenata, Lophozia bicrenata, Scapania undulata*, and *Trichocolea tomentella*.

80. **Crandall-Stotler, B., and R. Stotler. 1978. Liverworts and hornworts of Lusk Creek Canyon Nature Preserve, Pope County, Illinois. Transactions of the Illinois State Academy of Science 71:312-321.** [1-A, 47-H] Annotated checklist with specimens cited, vouchers at SIU; comparison to number of species found in other southern Illinois locations in Jackson (32), Union (21), and a previous Lusk Creek study (34); *Lejeunea laetivirens* and *Marsupella emarginata*.

81. **Crosby, M.R., and L.E. Anderson. 1967. The mosses of a disjunct hemlock stand in the piedmont of North Carolina. Bryologist 70:299-311.** [1-M] *Thamnobryum alleghaniense* from Illinois, no counties listed; no specimen cited.

82. **Crotz, D.K. 1977. The status of *Calypogeja fissa* (L.) Raddi in North America. M.S. thesis. Southern Illinois University, Carbondale. vi + 114.** [1-H] *C. fissa* subsp. *neogaea* in axenic culture from Gallatin Co.; " . . . no true *C. fissa* in North America"; no voucher mentioned.

83. **Crum, H.A. 1956. *Lindbergia brachyptera* in North America. Bryologist 59:203-212.** [1-M] From Coles, Du Page, and Fulton cos., one dot map; specimens cited.

84. **Crum, H.A. 1958. *Anacamptodon* in North America. Bryologist 61:136-140.** [1-M] *A. splachnoides* from Illinois (R-3), no specimens cited.

85. **Crum, H.A. 1983. Mosses of the Great Lakes forest. 3rd ed. University of Michigan Herbarium, Ann Arbor. 417 p.** [7-M] *Bryum algovicum, B. uliginosum, Calliergon cordifolium, Helodium blandowii, Plagiothecium denticulatum, Platydicta subtile*, and *Polytrichum juniperinum* var. *affine* from Illinois, no counties listed or specimens cited; excellent keys, illustrations, descriptions, and ecological information; eds. 1 (1973 and 1974) and 2 (1976) list the same taxa.

86. **Crum, H.A. 1984. Sphagnopsida, Sphagnaceae. North American Flora, Series II, 11:iv + 180.** [6-S] Superior treatment with illustrations, keys, and descriptions; no counties listed; no specimens cited; *Sphagnum centrale, S. imbricatum, S. papillosum, S. subsecundum* var. *contortum, S. teres*, and *S. warnstorfii*.

87. **Crum, H.A., and L.E. Anderson. 1955. Taxonomic studies in the Funariaceae. Bryologist 58:1-15.** [3-M] *Entosthodon neoscoticus* (=*Pottia randii*) Illinois, *Physcomitrium acuminatum* (from Illinois according to Lesquereux & James) specimens from Illinois named by Grout are actually *P. pyriforme*; Britton applied the name *Pottia randii* to plants from Illinois, although she admittedly had not seen authentic specimens.

88. **Crum, H.A., and L.E. Anderson. 1956. Taxonomic studies on North American mosses. I-V. Journal of the Elisha Mitchell Scientific Society 72:276-291.** [2-M] *Orthotrichum pumilum* and *O. pusillum* from Illinois, no counties listed; no specimens cited.

89. **Crum, H.A., and L.E. Anderson. 1965. The taxonomy and distribution of *Acaulon schimperianum*. Bryologist 68:208-211.** [1-M] From Menard Co., "likelyhood [sic] . . . seems plausible;" no specimen cited.

90. **Crum, H.A., and L.E. Anderson. 1981. Mosses of eastern North America. 2 vols. Columbia University Press, New York. 1328 p.** [58-M, 6-S] Taxa reported from Bureau, Hancock, and Johnson cos., but most reports are from unspecified Illinois locations; some specimens cited; chromosome count for *Mnium affine* var. *ciliare* (n=6) and ignoring an early count (n=12) for *Timmia megapolitana; Cratoneuron commutatum* and *Scopelophila ligulata*.

91. **Darlington, H.T. 1964. The mosses of Michigan. Cranbrook Institute of Science, Bulletin No. 47. 212 p.** [2-M] *Amblystegiella subtilis* and *Tortula papillosa* from Illinois, no counties listed; no specimens cited.

92. **Davidonis, G.H., and M.H. Munroe. 1972. Apical dominance in *Marchantia*: correlative inhibition of neighbor lobe growth. Botanical Gazette 133:177-184.** [1-H] *M. polymorpha* collected in 1955 by P. Voth, 9 miles south of Oregon, Ogle Co. (p. 178); no mention of voucher

93. **Davis, B.M. 1901. Nuclear studies on *Pellia*. Annals of Botany 15:147-180.** [1-H] *Pellia epiphylla* from Starved Rock, La Salle Co. in 1899; n=8; no mention of voucher

94. **DiMichele, W.A., and T.L. Phillips. 1976. *Thallites dichopleurus sp. nov.* from the Middle Pennsylvanian Mazon**

Creek flora. Bulletin of the Torrey Botanical Club 103:218-222. [1-H] Type specimen PP19467 (F) of fossil from Grundy Co.; "*T. dichopleurus* is either an alga or a thalloid liverwort . . . .If it were an hepatic, the Metzgeriales would be the closest in comparable morphology."; illustration and photographs.

95. Downing, E.R. 1924. A naturalist in the Great Lakes region. 2nd ed. University of Chicago Press, Chicago, Illinois. xxv + 336 p. [4-H, 1-M, 1-S] *Conocephalum, Marchantia, Riccia, Ricciocarpos,* and *Sphagnum* from R-2; *Polytrichum* sp. from La Salle Co.; no specimens cited; p. 194,234,265.

96. Duerr, J.J. 1967. A study of succession on an acid peat bog in Kane County, Illinois. M.S. thesis. Northern Illinois University, De Kalb. vii + 59 p. [3-M, 2-S] *Dicranum rugosum* [?], *Mnium* sp., *Polytrichum commune, Sphagnum magellanicum,* and *Sphagnum* sp. (extensive); no voucher data.

97. Dupler, A.W. 1922. The male receptacle and antheridium of *Reboulia hemisphaerica*. American Journal of Botany 9:285-295. [1-H] Second group of material for developmental morphology study was secured from near Mt. Carroll (Carroll Co.) January to August 1916; no voucher mentioned.

98. Dybas, H.S. 1978. The systematics and geographical and ecological distribution of *Ptiliopycna*, a Nearctic genus of parthenogenetic featherwing beetles (Coleoptera: Ptiliidae). American Midland Naturalist 99:83-100. [3-S] At least three sphagna (*Sphagnum magellanicum, S. squarrosum,* and *S. teres*) from Lake Co. and R-2; no vouchers mentioned.

99. Emerson, F.W. 1921. Subterranean organs of bog plants. Botanical Gazette 72:359-374. [1-S] *Sphagnum* sp. from Cook and Lake cos.; no vouchers mentioned.

100. Emmitt, R.W. 1950. *Fontinalis disticha* and *Fissidens hallianus* reported from Ohio. Bryologist 53:237. [1-M] *F. hallianus* is listed by Grout (1928) as having been reported from Illinois; no specimen cited.

101. Evans, A.W. 1906. Notes on New England Hepaticae,-IV. Rhodora 8:34-35. [1-H] Page 40, *Lophocolea Hallii* [sic] of Illinois (Austin, 1869), "a doubtful species," no county listed.

102. Evans, A.W. 1910. Notes on New England Hepaticae,-VIII. Rhodora 12:193-204. [1-H] Page 193, *Riccia sorocarpa* from Illinois according to Underwood (1894), no county listed; no specimen cited.

103. Evans, A.W. 1912. Notes on New England Hepaticae,-IX. Rhodora 14:1-18. [1-H] *Riccia lescuriana* from Illinois (on authority of Austin), no county listed; no specimen cited.

104. Evans, A.W. 1914. Notes on New England Hepaticae,-XI. Rhodora 16:62-76. [1-H] Page 64, *Neesiella rupestris* from Illinois, no county listed; no specimen cited.

105. Evans, A.W. 1917. Notes on New England Hepaticae,-XIV. Rhodora 19:263-272. [1-H] Page 264, *Riccia frostii* from Illinois by J. Wolf, from literature, no county listed.

106. Evans, A.W., and G.E. Nichols. 1908. The bryophytes of Connecticut. Connecticut Geological and Natural History Survey Bulletin No. 11. 203 p. [1-H, 3-M] *Anacamptodon splachnoides, Elodium paludosum, Frullania brittoniae,* and *Pylaisia subdenticulata* from Illinois, no counties listed; no specimens cited.

107. Evers, R.A. 1952. Hill prairies of Illinois. Ph.D. dissertation. University of Illinois, Urbana-Champaign. v + 148 p. [1-H] *Reboulia hemisphaerica* [probably misdetermined *Mannia fragans*] from R-3 and R-5; no specimens cited.

108. Evers, R.A. 1955. Hill prairies of Illinois. Illinois Natural History Survey Bulletin 26:367-446. [1-H] *Reboulia hemisphaerica* [probably misdetermined *Mannia fragans*] from Illinois, no counties listed, primarily along bluffs of Illinois and Mississippi rivers (R-3); no specimens cited.

109. Evers, R.A. 1961. Presidential Address. Natural or scientific areas: and Illinois resource. Transactions of the Illinois State Academy of Science 54:3-12. [1-M, 1-S] The sandstone ledges at Little Bay Creek (Pope Co.) support patches of various mosses including species of *Grimmia,* which are deep green when wet but almost black when dry; *Sphagnum* sp. occurs on the sandstone wall of ravine in Little Grand Canyon (Jackson Co.).

110. Evers, R.A. 1964. Rocky Branch unusual nature area. Outdoor Illinois 3(2):31-32. [1-H, 1-S] *Conocephalum conicum* and *Sphagnum* from Clark Co.; no specimens cited.

111. Evers, R.A., and C.C. Hoff. 1946. Siloam Springs State Park. Transactions of the Illinois State Academy of Science 39:50-56. [1-M] *Polytrichum commune* from Adams and/or Brown cos.; "mosses are abundant"; no specimens cited but noted that most plants are vouchered at ILL or ILLS.

112. Evers, R.A., and L.M. Page. 1977. Some unusual natural areas in Illinois. Illinois Natural History Survey, Biological Notes 100. 47 p. [1-H, 2-M, 1-S] *Conocephalum conicum* (Clark), *Grimmia* (Pope), *Polytrichum* (Jefferson), and *Sphagnum* (Clark, Jackson, Lake, Pope); (p. 11,20,24,28,30, 37,38,40); previously published by Evers (1963) as Biological Notes 50, with the same taxa listed.

113. Fell, E.W. 1957. Plants of a northern Illinois sand deposit. American Midland Naturalist 58:441-451. [1-M, 1-S] Winnebago Co., with vouchers at ISM but no specimens cited; "The sand plains and dunes contain a number of well-developed, shallow *Sphagnum* bogs . . . .*Sphagnum* is largely replaced by *Polytrichum* in places that are getting dry . . . .*Polytrichum commune* is an important mat former which covers large areas to the exclusion of other growth, unidentified mosses are less important."

114. Fell, E.W., and G.B. Fell. 1957. The ravine flora of Winnebago County, Illinois. Transactions of the Illinois State Academy of Science 50:83-89. [2-H, 1-M] The sloping base of the cliff and the talus are thickly covered in places with *Lunularia* [?], *Marchantia, Polytrichum,* and unidentified mosses; no specimens cited.

115. Fife, A.J. 1979. Taxonomic observations on three species of North American *Funaria*. Bryologist 82:204-214. [3-M] Lesquereux and James (1884) reported *F. microstoma* from Illinois based on collections by Patterson from Oquawka (Henderson Co.) and by Schneck (Wabash Co.). These collections as well as a third Illinois collection are preserved in the James Herbarium; all are *F. flavicans* or mixtures of *F. flavicans* and *F. hygrometrica*; Grout (1935) reported the North American distribution of *F. microstoma s.s.* to include Illinois (he did not study the misnamed Illinois material mentioned above).

116. Flowers, S. 1930. *Pottia randii* Kennedy. Bryologist 33:30. [3-M] *Amblystegium serpens, Drepanocladus aduncus* vars., and *Pottia randii* (two populations, fruiting) collected in Chicago (Cook Co.) on 20 July by author; no specimens mentioned.

117. Flowers, S. 1973. Mosses: Utah and the West. Edited by A. Holmgren. Brigham Young University Press, Provo, Utah. xii + 567 p. [5-M] *Brachythecium campestre, Bryum uliginosum, Plagiothecium muellerianum, Pterygoneuron subsessile,* and *Tortula mucronifolia* from Illinois, no counties listed; no specimens cited.

118. Freeman, G.W. 1974. A survey of the bryophytes of the western one-third of Hancock County, Illinois. M.S. thesis. Western Illinois University, Macomb. vii + 47 p. [1-A, 22-H, 98-M] Annotated checklist with vouchers at SMS, SIU, and WIU; *Asterella saccata, Atrichum crispum, Barbula cancellata, Fissidens exiguus, Frullania kunzei* [?], *Physcomitrium immersum,* and *Sphaerocarpus texanus.*

119. Fritsch, R. 1982. Index to plant chromosome numbers - Bryophyta. F.A. Stafleu (ed.). Regnum Vegetabile 108:xiv + 268 p. [1-A, 1-H] *Notothylas orbicularis* (n=ca. 5 + acc.) mitotic; *Pellia epiphylla* (n=8) meitotic and mitotic; no mention of specific locations or vouchers.

120. Frye, T.C., and L. Clark. 1937-1947. Hepaticae of North America. University of Washington Publications in Biology 6(1-5):1-1022. [4-A, 55-H] From R-5 (0,1), Champaign (0,6), Cook (0,1), Du Page (0,3), Hardin (0,1), La Salle (0,2), and Peoria (0,1) cos., with the rest from unspecified locations in Illinois; some specimens cited; *Pleuroclada albescens* [?].

121. Fuller, G.D. 1917. The vegetation of the Chicago region. An outline of some of the principal plant associations together with lists of their principal species. Published privately, Chicago. 28 p. [1-A, 8-H, 2-M] *Aneura pinguis, Anthoceros laevis, Blasia pusilla, Cephalozia, Marchantia polymorpha, Pellia epiphylla, Reboulia, Ricciocarpos natans,* and *Scapania nemorosa* from Cook Co.; *Polytrichum juniperinum* and *P. piliferum* from La Salle Co.; p. 21-22.

122. Galligar, G.C. 1934. Some bryophytes of Macon County, Illinois. Transactions of the Illinois State Academy of Science 27:60-61. [5-H, 36-M] Annotated checklist, no specimens cited.

123. Garber, J.F. 1904. The life history of *Ricciocarpus natans*. Botanical Gazette 37:161-177. [1-H] From the Chicago area (R-2) [probably Cook Co.]; no specimen cited.

124. Gatchell, S.L. 1978. The effects of sulphur dioxide on selected hepatics. M.S. thesis. Eastern Illinois University, Charleston. iv + 53 p. [4-H] *Blasia pusilla* and *Jamesoniella autumnalis* from Coles Co.; *Lophocolea heterophylla* and *Scapania nemorosa* from Clark Co.; sites for *Blasia* and *Jamesoniella* are switched; no vouchers.

125. Gates, F.C. 1912. The vegetation of the beach area in northeastern Illinois and southeastern Wisconsin. Bulletin of the Illinois State Laboratory of Natural History 9:255-372 + pls. XXXVII-LVI. [2-H, 1-M] *Marchantia polymorpha, Polytrichum juniperinum,* and *Riccia fluitans* from Lake Co., (p. 353) some specimens cited from F, ILL, and author's collection; (p. 299) unidentified mosses are secondary species in bunch-grass association; (p. 313) unidentified mosses in *Quercus velutina* association; (p. 322) *Riccia* tends to remain nearer the border of the *Nymphaea* and *Typha* in the *Lemna-Riccia* association, numerous small animal forms are associated; (p.327) *Riccia* is frequent in *Phragmites-Typha* association; (p. 330) an abundance of *Marchantia* may occasionally be found in association with *Calamagrostis*; (p. 334) *Polytrichum* associated with *Osmunda regalis*; (p. 335) "mosses" are secondary species in *Potentilla fruticosa* association.

126. Gleason, H.A. 1903. Notes on some southern Illinois plants. Torreya 3:1-3. [1-H] Page 2, in southern Illinois *Heuchera parviflora* grows in abundance with *Marchantia* and other Hepaticae, no counties listed; no vouchers mentioned.

127. Gleason, H.A. 1910. The vegetation of the inland sand deposits of Illinois. Bulletin of the Illinois State Laboratory of Natural History 9:23-174 + pls. I-XX. [1-M] *Polytrichum juniperinum* from Winnebago and Henderson cos.; (p. 112-114) The *Polytrichum* association; (p. 115) The *Salix* and *Polytrichum* associations occupy parallel positions, but develop under different conditions. *Polytrichum* association may develop at almost any level in the blowout; (p. 116) *Polytrichum* may colonize not only under the *Solidago* but also under a more xerophytic type of vegetation as well. The mats of *Polytrichum* on the other hand, produce a peaty layer over the sand, which becomes so thick that it retains standing water and admits of the development of a pond society; also p. 46,54,67,72,105,133,138,147,151,160,161,162, 165,168, and plate XXII.

128. Grant, F.R., and S.M. Hague. 1931. A list of mosses from Vermilion County, Illinois. Transactions of the Illinois State Academy of Science 24:122-123. [42-M] Checklist with collection date; no specimens cited.

129. Grolle, R. 1968. Monographie der gattung *Nowellia*. Journal of the Hattori Botanical Laboratory 31:20-49. [1-H] Page 31, *N. curvifolia* from Illinois according to literature (Frye & Clark, 1945); dot map (p. 45) from east central Illinois (R-3).

130. Grout, A.J. 1896. A preliminary revision of the North American Isotheciaceae. Bulletin of the Torrey Botanical Club 23:223-233. [4-M] *Climacium americanum* and *Entodon compressus* from Illinois with no counties listed, *E. seductrix* var. *lanceolata* (new variety) from Hanging Rock, Wabash Co., 3 April 1890 (*J. Schneck*), and *Pylaisiella subdenticulata* from Athens, Menard Co. (*Hall*).

131. Grout, A.J. 1897. A revision of the North American Isotheciaceae and Brachythecia. Memoirs of the Torrey Botanical Club 6:131-210. [4-M] Same taxa and data as Grout (1896).

132. Grout, A.J. 1898. A revision of the North American Eurhynchia. Bulletin of the Torrey Botanical Club 25:221-256. [3-M] *Bryhnia graminicolor* and *Cirriphyllum boscii* from Illinois, no county listed, no specimen cited; *Eurhynchium strigosum robustum* type loc., vicinity of Chicago (Cook Co.), dup. Columbia Univ.; p. 227,232,239.

133. Grout, A.J. 1928-1934. Moss flora of North America north of Mexico. Vol. III. 4 parts, with sections by A.J. Sharp and W.H. Welch. Published by A.J. Grout, New York (Parts 1 & 2) and Newfane, Vermont (Parts 3 & 4). 277 p. + 80 pls. [12-M] *Anacamptodon splachnoides, Amblystegiella minutissima, A. subtilis* [sic], *Brachelyna subulatum, Bryhnia graminicolor, Cirriphyllum boscii, Entodon seductrix* v. *lanceolata* (Wabash), *Eurhynchium strigosum* var. *robustum* (Cook - type loc.), *Fontinalis missourica* (Will), *Helodium paludosum, Lindbergia brachyptera* v. *austinii* (type), and *Pylaisia subdenticulata* (Menard); some specimens cited.

134. Grout, A.J. 1933-1940. Moss flora of North America north of Mexico. Vol. II. 4 parts, with sections by A.L. Andrews, S. Flowers, G.N. Jones, G. Sayre, and W.C. Steere. Published by A.J. Grout, Newfane, Vermont. 285 p. + 115 pls. [15-M] *Bartramia pomiformis* v. *crispa, Bryum cernuum, B. pendulum, Discelium nudum, Enthostodon Drummondii* [sic], *Ephemerum crassinervium, E. crassinervium* v. *papillosum, Funaria microstoma, Meesia hexasticha, M. longiseta* (R-2), *Orthotrichum pusillum, Philonotis marchica, Physcomitrium acuminatum, Plagiopus oederi,* and *Pohlia carnea* (Fulton); some specimens cited.

135. Grout, A.J. 1936-1939. Moss flora of North America north of Mexico. Vol. 1. 4 parts, with sections by S.A. Cain, E.J. Craig, S. Flowers, T.C. Frye, I.M. Haring, A.J. Sharp, W.C. Steere, and W.T. Wareham. Published by A.J. Grout, Newfane, Vermont. 264 p. + 129 pls. [13-M] *Acaulon rubrum, Aloina aloides* v. *ambigua* (Menard), *Aloina rigida, Bruchia texana, Desmatodon plinthobius, D. porteri, Encalypta procera* (Will), *E. streptocarpa* (Will), *Fissidens Hallianus* [sic] (Menard, type loc., " . . . on stem *Cephalanthus* with *Fissidens fontanus*, in sunken hole . . . "), *Pottia Randii* [sic] (Cook), *Pterygoneuron subsessile,* and *Tortula papillosa*; some specimens cited.

136. Grout, A.J. 1943. Fissidentaceae. North American Flora 15(3):167-202 + 10 pls. [1-M] *Fissidens Hallianus* [sic] from Athens (Menard Co.), type loc., *Hall*

137. Grout, A.J. 1946. Orthotrichaceae. North American Flora 15A:1-62 + 5 pls. [1-M] *Orthotrichum pusillum* from Illinois, no counties listed; no specimen cited.

138. Grunwald, C., and D. Szafoni. 1983. Revegetation study of Longwall Mine wastes in northern Illinois. Abandoned Mined Land Reclamation Council, Springfield, Illinois.

174 p. [2-H, 8-M, 1-S] Checklist from various mine spoil piles in Bureau (*Ceratodon purpureus, Dicranella heteromalla,* and *Mnium cuspidatum*), Grundy (*Ceratodon purpureus*), La Salle (*Ceratodon purpureus*), and Putnam cos. (*Aulacomnium palustre, Barbula unguiculata, Callicladium haldanianum, Cephalozia bicuspidata, Ceratodon purpureus, Ditrichum pallidum, Jungermannia gracillima, Pohlia nutans,* and *Sphagnum centrale*; (p. 20,29,30,41,42,45,55,64); vouchers at ILLS.

139. Hague, S.M. 1930. Illinois mosses. Transactions of the Illinois State Academy of Science 22:220-249. [264-M] Checklist treating Adams (1), Carroll (10), Champaign (37), Cook (117), Du Page (4), Fulton (117), Hancock (2), Henderson (19), Henry (4), Johnson (4), Kane (3), Kankakee (15), Lake (81), La Salle (15), Marion (14), Mason (1), McHenry (9), McLean (1), Menard (120), Ogle (16), Peoria (74), Pulaski (2), Randolph (1), Rock Island (20), Sangamon (2), Schuyler (1), Stark (10), Tazewell (1), Union (6), Wabash (1), Will (65), Winnebago (1), and Woodford (1) cos.; no specimens cited.

140. Hague, S.M. 1934. Mosses from the Illinois Ozarks. Transactions of the Illinois State Academy of Science 27:62-63. [74-M, 1-S] Checklist treating Hardin (3), Johnson (46), Pope (26), Saline (26), Union (14), and Williamson (1) cos.; *Sphagnum* sp. from Johnson Co.; no specimens cited.

141. Hague, S.M. 1937. Illinois liverworts. Transactions of the Illinois State Academy of Science 30:118-124. [5-A, 62-H] Checklist treating Carroll (0,2), Champaign (0,4), Cook (1,22), De Kalb (0,1), Du Page (0,3), Fulton (4,35), Henderson (0,1), Jo Daviess (0,1), Johnson (0,5), Kankakee (0,2), Knox (0,1), Lake (0,6), La Salle (1,8), Macon (0,1), Marion (0,1), Menard (2,33), Ogle (0,3), Peoria (3,24), Rock Island (0,3), Stark (2,2), St. Clair (2,17), Tazewell (0,2), Union (1,5), Wabash (0,5), and Will (1,5) cos.; no specimens cited, but some voucher data.

142. Hague, S.M., and R.V. Drexler. 1938. Recent collections of Illinois liverworts. Transactions of the Illinois State Academy of Science 31:113-114. [2-A, 29-H] Checklist treating Carroll (0,2), Champaign (0,5), Hardin (0,4), Jersey (0,1), Jo Daviess (0,6), Johnson (0,5), Lake (0,2), La Salle (0,2), Marion (0,1), McLean (0,1), Ogle (0,1), Peoria (1,1), Pope (0,1), Saline (0,7), Tazewell (1,1), Union (0,2), Vermilion (0,3), and White (0,1) cos.; specimens cited.

143. Hague, S.M., and S.A. Holmes. 1933. A report of mosses collected from Coles and Crawford counties, Illinois. Transactions of the Illinois State Academy of Science 25:124-126. [48-M] Annotated checklist for Coles (31) and Crawford (31) cos.; no specimens cited.

144. Hatcher, R.E. 1952. Some bryophytes of southern Illinois. Bryologist 55:223-227. [2-A, 26-H, 72-M, 1-S] Notes and checklist treating Jackson, Pope, and Union cos.; no Pope Co. sites or taxa listed.

145. Hatcher, R.E. 1957. The genus *Trichocolea* in North, Central and South America - (Hepaticae). Lloydia 20:139-185. [1-H] *T. tomentella* from Jackson and Ogle cos.; no specimens cited.

146. Hatcher, R.E. 1965. Towards the establishment of a pure culture collection of Hepaticae. Bryologist 68:227-231. [6-H] *Frullania eboracensis* (Randolph), *Jamesoniella autumnalis* (Randolph), *Leucolejeunea clypeata* (Randolph), *Lophocolea heterophylla* (Jackson), *Radula obconica* (Jackson), and *Scapania nemorosa* (Pope); specimens cited.

147. Hatcher, R.E. 1967. Experimental studies of variation in Hepaticae. I. Induced variation in *Lophocolea heterophylla*. Brittonia 19:178-201. [1-H] Two populations from Jackson Co., with culturing information, illustrations, tables, and results from different media under uniform environmental regimes.

148. Hattori, S. 1972. *Frullania tamarisci*-complex and the species concept. Journal of the Hattori Botanical Laboratory 35:202-251. [1-H] *F. tamarisci* subsp. *asagrayana* from Illinois, no county listed; no specimen cited (p. 232).

149. Haupt, A.W. 1921. Embryogeny and sporogenesis in *Reboulia hemisphaerica*. Botanical Gazette 71:446-453. [1-H] From Cook and Stephenson cos. (p. 446); no voucher cited.

150. Henderson, L.B. 1929. The plants of Castle Rock. A preliminary report. Transactions of the Illinois State Academy of Science 21:144-151. [2-H, 2-M] *Conocephalum, Grimmia, Polytrichum juniperinum,* and *Reboulia* from Ogle Co.; no specimens cited.

151. Hill, E.J. 1886. A botanical diary. Botanical Gazette 11:183-184. [1-M] *Weisia viridula* [sic] from Cook Co.; no specimen cited.

152. Hill, E.J. 1902. *Fissidens grandifrons*, its habits and propagation. Bryologist 5:56-58. [1-M] From La Salle Co., July 1901.

153. Hill, E.J. 1903. Branched paraphyses of *Bryum roseum*. Bryologist 6:80-81. [1-H, 2-M] From Du Page Co. in association with *Atrichum angustatum* and *Porella platyphylla*; no specimens cited.

154. Hill. E.J. 1905. *Encalypta procera* Brid. Bryologist 8:107-110. [1-H, 2-M] From Will Co. in association with *Brachythecium* and *Reboulia*; no specimens cited.

155. Hill, E.J. 1907. The validity of some species of *Fissidens*. Bryologist 10:67-74. [9-M] *Fissidens bryoides* and *F. inconstans* from Cook Co.; *Gymnostomum calcareum* from Will Co.; *Amblystegium varium, Anomodon, Dicranella heteromalla, F. cristatus, F. synoicus,* and *Mnium cuspidatum* from Illinois, no counties listed; no specimens cited.

156. Hill, E.J. 1909. Note on *Amblystegium noterophilum*. Bryologist 12:108-109. [4-M] *Amblystegium irriguum spinifolium* and *A. noterophilum* from Cook Co.; *A. noterphilum, A. riparium,* and *Drepanocladus aduncus* from Will Co.; no specimens cited.

157. Hill, E.J. 1910. Charles R. Barnes and Julius Röll's collections of mosses in North America. Bryologist 13:105-107. [1-M, 1-S] *Dicranum Bonjeani* var. *alatum* [sic] and *Sphagnum* from Cook and/or Lake cos.; no specimens cited.

158. Hill, E.J. 1912. Characteristic features of the lake and peat-swamp flora of Lake County, Illinois. IV. The peat swamp flora, special features. Pages 338-352. *in* J.J. Halsey (ed.), A history of Lake County, Illinois. R.S. Bates, Publisher, Thomson, Illinois. 872 p. [1-M, 1-S] *Polytrichum strictum* and *Sphagnum* "many colors"; no specimens cited or vouchers mentioned.

159. Hill, E.J. 1914. Notes on the distribution of *Polytrichum strictum* and some associated sphagna. Bryologist 17:63-64. [2-M, 4-S] *Aulacomnium palustre, Polytrichum strictum, Sphagnum Acutifolium* [sic], *S. fuscum, S. rubellum,* and *S. warnstorfii* from Lake Co.; no specimens cited.

160. Hill, E.J. 1915. *Fontinalis umbackii* Cardot. Bryologist 18:10-12. [1-M] From Will Co.; no specimen cited.

161. Hill, E.J. 1916. Notes on *Funaria*. Bryologist 19:35-37. [2-H, 1-M] *Funaria americana, Grimaldia fragrans,* and *Reboulia hemisphaerica* from Will Co.; no specimens cited.

162. Holferty, G.M. 1904. The archegonium of *Mnium cuspidatum*. Botanical Gazette 37:106-126. [1-M] From Cook and La Salle cos. (p. 106); no specimens cited.

163. Holzinger, J.M. 1905. Some recently described North American Polytricha. Bryologist 8:29-31. [1-M] *Polytrichum decipiens* from Cook Co., *Röll 1811, 1815, 1888.*

164. Homoya, M.A. 1977. Distribution and ecology of the genus

***Isotria* in Illinois. M.S. thesis. Southern Illinois University, Carbondale. vi + 104.** [6-M, 1-S] *Atrichum angustatum, Climacium americanum, Dicranum scoparium, Mnium cuspidatum, Sphagnum* sp., and *Thuidium delicatulum* from Randolph Co.; *Leucobryum glaucum* and *Sphagnum* sp. from Pope Co.; incomplete title for figure 7 (p. 88), assumed to be for *I. medeoloides*; no specimens cited.

165. Hopkins, C.E.O. 1969. Vegetation of fresh-water springs of southern Illinois. Castanea 34:121-145. [2-A, 10-H, 23-M] From Gallatin (1,4,7), Hardin (0,1,4), Pope (1,2,10), and Union (2,7,12); "52 bryophytes", but only 35 listed in article; community ecology, site maps, no specimens cited but vouchers at SIU; some inaccurate topographic data; reprint, with some omissions, of Ott (1968).

166. Horton, D.G. 1983. A revision of the Encalyptaceae (Musci), with particular reference to the North American taxa. Part II. Journal of the Hattori Botanical Laboratory 54:353-532. [1-M] *Encalypta procera* from R-2; dot map (p. 396); no specimen cited.

167. Horton, D.G., and D.H. Vitt. 1976. Morphological characters, relative to distribution, and taxonomic considerations of the genus *Climacium* in North America. Canadian Journal of Botany 54:1872-1883. [1-M] *C. americanum* from Illinois; p. 1874 and 1876 (Fig. 1 and 2) dot map with three populations (R-2,3,5); p. 1882 (Fig. 25) range map encompassing all of Illinois; specimens examined but not cited.

168. Howe, M.A. 1897. The North American species of *Porella*. Bulletin of the Torrey Botanical Club 24:512-528. [1-H] *P. pinnata* from Illinois (*Schneck*), [probably Wabash Co.].

169. Huett, J.W. 1898. Musci and Hepaticae, mosses and liverworts. Pages 150-152 *in* J.W. Huett (ed.), An essay toward a natural history of La Salle County, Illinois. Part II - Geology and Zoology. Fair-Dealer, Ottawa, Illinois. [vii] + 174 p. [2-H, 20-M, 1-S] Annotated checklist with specimens cited.

170. Husa, J.G. 1956. Mosses of the campus woods. M.S. thesis. Northern Illinois University, De Kalb. 26 p. [11-M] *Amblystegium serpens, A. varium, Atrichum angustatum, Dicranum fuscescens* [?], *Fissidens taxifolius, Leptodictyum riparium, L. trichopodium, Leskea gracilescens, Mnium cuspidatum, Physcomitrium turbinatum*, and *Rhynchostegium serrulatum* from De Kalb Co., with habitat data; no vouchers mentioned.

171. Ireland, R.R. 1966. A taxonomic revision of the genus *Plagiothecium* for North America, north of Mexico. Ph.D. dissertation. University of Washington. [v] + vi+ 159 p. [6-M] *Isopterygium borrerianum* (Pope), *I. deplanatum* (Tazewell and on dot map from Clark, Cook, Fulton, and Menard), *I. taxirameum* (Clark), *Plagiothecium denticulatum* (Cook), *P. roeseanum* (Cook), and *Sharpiella turfacea* (dot map from R-3); specimens cited; p. 42,45,70,101,110,152,153,155,156.

172. Ireland, R.R. 1969. Taxonomic studies on the genus *Atrichum* in North America. Canadian Journal of Botany 47:353-368. [1-M] *A. altecristatum* from Peoria Co. (*Chase 1120*).

173. Ireland, R.R. 1969. A taxonomic revision of the genus *Plagiothecium* for North America, north of Mexico. Publications in Botany, No. 1. National Museums of Canada. National Museum of Sciences, Ottawa. viii + 118 p. [7-M] Descriptions, keys, specimens cited, dot maps, and excellent illustrations; *Isopterygium distichaceum* (Jackson), *I. elegans* (Pope), *Plagiothecium denticulatum* (Cook), *P. roeseanum* (Cook), *Sharpiella turfacea* (R-3), *Taxiphyllum deplanatum* (Tazewell, Vermilion, R-2), and *T. taxirameum* (Clark, Vermilion, R-3).

174. Ireland, R.R. 1982. Moss flora of the Maritime Provinces. Publications in Botany. No. 13. National Museums of Canada. National Museum of Sciences, Ottawa. 738 p. [20-M, 4-S] *Atrichum tenellum, Climacium dendroides, Desmatodon cernuus, D. randii, Dicranum polysetum, Orthotrichum anomalum, Polytrichum longisetum, P. strictum, Tortella tortuosa*, and *Tortula papillosa* from Illinois, no counties listed; some of the reports from literature; no specimens cited.

175. Ireland, R.R., and L.M. Ley. 1984. Type specimens of bryophytes in the National Museum of Natural Sciences, National Museums of Canada. Syllogeus 47:1-69. [2-M] *Conomitrium hallianum* isotype collected by E. Hall; *Leskea austinii* isotype from Fulton Co. collected by Wolf (CANM 197589).

176. Ireland, R.R., and N.G. Miller. 1982. *Grimmia anodon* (Musci: Grimmiaceae) in North America north of Mexico. Bryologist 85:112-114. [1-M] From Hancock Co., O'Flaherty 1972 (MICH), on granite and concrete tombstone; dot map.

177. Isenbarger, J. 1934. A contrast of plant habitats with reference to hydrogen-ion concentration and plant distribution. Transactions of the Illinois State Academy of Science 25:126-128. [2-S] *Sphagnum* from Lake Co.; *S. acutifolium* from Cook Co.; no specimens cited.

178. Jackson, S.T. 1978. A Middle Illinoian florule from southeastern Jackson County, Illinois. M.S. thesis. Southern Illinois University, Carbondale. viii + 88 p. [M] Unnamed; "representative fossil moss gametophytes" (p. 79, fig. 13-16).

179. Jackson, S.T., and N.G. Miller. 1983. Paleoecology of a fossil plant assemblage from a pre-Wisconsinan till in southern Illinois. American Midland Naturalist 109:120-135. [1-H, 32-M, 2-S] List of fossil bryophytes from Indian Creek, Jackson Co.; no specimens cited; *Calliergon trifarium, Distichium capillaceum, Hylocomium splendens, Scorpidium scorpioides*, and *Tomenthypnum nitens*; useful comments on habitats of taxa and criteria used to identify material.

180. James, T.P. 1864. Article V. On new mosses. Transactions of the American Philosophical Society 8:105-116. [2-M] *Phascum schimperianum* on bare ground from upper Illinois; *Pottia subsessilis* on bluffs along Sangamon River (R-3); both collected by E. Hall, but location of vouchers not given.

181. Jansen, D.B.F. 1979. A survey of the bryophytes of the southern two-thirds of Fulton County, Illinois. M.S. thesis. Western Illinois University, Macomb. vi + 65 p. [1-A, 10-H, 79-M] Annotated checklist with vouchers at MWI; *Hygrohypnum luridum* and *Orthotrichum anomalum*.

182. Janssens, J.A. 1983. Past and extant distribution of *Drepanocladus* in North America, with notes on the differentiation of fossil fragments. Journal of the Hattori Botanical Laboratory 54:251-298. [1-M] *D. aduncus* var. *aduncus* from R-3; " . . . fossil report west central IL . . . extant in central IL . . . "; no specimens cited.

183. Jennings, O.E. 1951. A manual of the mosses of western Pennsylvania and adjacent states. 2nd ed. American Midland Naturalist, Monograph No. 6 [vii] + 396 p. [11-M] *Amblystegiella minutissima, A. subtilis, Anacamptodon splachnoides, Bryum uliginosum, Discelium nudum, Ephemerum crassinervium, Helodium paludosum, Octodiceras Hallianum* [sic], *Plagiopus oederi, Pohlia carnea*, and *Pylaisia subdenticulata* from Illinois, no counties given; no specimens cited.

184. Jester, J. and C.B. Arzeni. 1973. Settlement mosses of Lincoln's time. Outdoor Illinois 12(2):14-18. [19-M] General information about common Coles Co. species; illustrations and economic utility; no vouchers mentioned.

185. Jones, G.N. 1961. The discovery of *Merceya* in Illinois. Bryologist 64:263-265. [1-M] *M. ligulata* from La Salle Co., *Chase 12810* (CANM, ILL).

186. Keim, L.L. 1967. The distribution of mosses and some ecological aspects of the Sherrard Woods in Mercer County near Moline, Illinois. M.S. thesis. Western Illinois Uni-

versity, Macomb. vi + 48 p. [16-M] Ecological notes and annotated checklist (p. 24), vouchers at WIU.

187. Kibbe, A.L. 1952. A botanical study and survey of a typical midwestern county (Hancock County, Illinois) covering a period of 119 years, from 1833 to 1952. Published by the author, Carthage, Illinois. [v] + 425 p. [1-H] *Riccia natans* (p. 65), no specimen cited; " . . . liverworts and mosses of Hancock County have never been given adequate attention."

188. Kibbe, A.L. (ed.). 1953. Afield with plant lovers and collectors. Published by the editor, Carthage College, Carthage, Illinois. [xii] + 565 p. + [appendix]. [5-M] *Anacamptodon splachnoides*, Hypni, and Mniums from Fulton Co.; *Fumeria* [sic] *microstoma* from Henderson Co.; *Phascacea triquetrum* from Menard Co.; series of letters from E. Hall to H.N. Patterson; several excellent passages on the study of cryptogams; p. [9] of the appendix has list of Musci collected near Oquawka, Henderson Co., Patterson (1874); p. 304,306,308,311,312.

189. Klopmeyer, M.J. 1981. A key to the Hepaticae of Coles and Clark Counties, Illinois. M.S. thesis. Eastern Illinois University, Charleston. v + 73 p. [2-A, 45-H] Descriptions and some illustrations, no vouchers mentioned; *Lophozia bicrenata* and *L. incisa*.

190. Koponen, T. 1971. A monograph of *Plagiomnium* Sect. Rosulata (Mniaceae). Annales Botanici Fennici 8:305-367. [3-M] *P. ciliare* from Adams, Clark, Hancock, and Menard Cos. plus three collections without specific location data; *P. medium* from La Salle and Whiteside cos. plus one collection without county; and *P. rugicum* from Cook, Lake, Putnam, and Tazewell cos. plus one collection with specific collection site; dot and range maps; specimens cited.

191. Koponen, T. 1972. Speciation on the Mniaceae. Journal of the Hattori Botanical Laboratory 35:142-154. [3-M] *Plagiomnium affine ciliare*, *P. medium*, and *P. rugicum* from Illinois on shaded range map; no specimens cited.

192. Koponen, T. 1973. *Rhizomnium* (Mniaceae) in North America. Annales Botanici Fennici 10:1-26. [1-M] *R. punctatum* ssp. *chlorophyllosum* from Clark Co. *Vaughn 105* (MICH).

193. Kurz, H. 1928. Influence of *Sphagnum* and other mosses on bog reactions. Ecology 9:56-59. [7-M, 2-S] From Lake Co.; no mention of vouchers; *Amblystegium riparium*, *Aulacomnium palustre*, *Calliergon cuspidatum*, *Drepanocladus aduncus*, *Leucobryum glaucum*, *Sphagnum acutifolium*, *S. cymbilifolium*, *Stereodon pratensis*, and *Thuidium delicatulum*.

194. Lawton, E. 1971. Moss flora of the Pacific northwest. Supplement No. 1 of Journal of the Hattori Botanical Laboratory, Nichinan, Miyazaki, Japan. xiii + 363 p. + 195 pl. [15-M] From Illinois, no counties listed; no specimens cited; *Amblystegium noterophilum*, *A. trichopodium* var. *trichopodium*, *Calliergon cordifolium*, *Brachythecium rivulare*, *Cratoneuron filicinum*, *Dicranella varia*, *Dicranum polysetum*, *Disceliium nudum*, *Funaria americana*, *Isopterygium elegans*, *I. turfaceum*, *Meesia longiseta*, *Orthotrichum pumilum*, *Plagiothecium denticulatum*, and *P. roeseanum*.

195. Lazarenko, A.S. 1974. Some considerations on the nature and behavior of the relict moss *Desmatodon randii*. Bryologist 77:474-477. [1-M] From Chicago (Cook Co.) by Wareham (1939), one of four locations in North America; no specimen cited.

196. Lesquereux, L., and T.P. James. 1879. Descriptions of some new species of North American mosses. Proceedings of the American Academy of Arts and Sciences 3:133-141. [1-M] Page 136, *Weisia wolfii* on the ground at Canton (Fulton Co.), *J. Wolf*.

197. Lesquereux, L., and T.P. James. 1884. Manual of the mosses of North America. S.E. Cassino and Co., Boston. v + 447 p. + 6 pls. [15-M] *Amblystegium minutissimum*, *Barbula ambigua* (Menard), *Bruchia berychiana*, *Bryum atropurpureum*, *Cryphaea inundata* [White], *Dicranoweisia cirrhata* (Menard), *Fabronia octoblepharis* (Menard), *Funaria microstoma*, *Microbryum floerkeanum*, *Orthotrichum fallax* var. *truncatulum*, *Physcomitrium acuminatum*, *Pottia subsessilis*, *Sphaerangium schimperianum* (Menard), and *Weisia wolfii* (Fulton); some specimens cited.

198. Lewinsky, J. 1974. The genera *Leskeella* and *Pseudoleskeella* in Greenland. Bryologist 77:601-611. [1-M] *Leskeella nervosa* from R-1,2 according to shaded range map; no specimens cited, based on specimens seen and literature reports, but not listed.

199. Lopinot, A.C. 1965. A survey of Illinois aquatic plants. 1964-1965. Illinois Department of Conservation Special Fisheries Report No. 11, Springfield. 22 p. [1-H, 1-M] *Fissidens* and *Riccia fluitans* from Illinois (p. 6,8), no counties listed; no specimens cited.

200. Manuel, M.G. 1973. Studies in Cryphaeaceae I. A revision of the genus *Cryphaea* in North America north of Mexico. Bryologist 76:144-162. [1-M] *C. glomerata* from Illinois, *Hall* (F), no county listed; p. 147,154.

201. Maravolo, N.C., E.D. Garber, and P.D. Voth. 1967. Biochemical changes during sexual development in *Marchantia polymorpha*: I. Esterases. American Journal of Botany 54:1113-1117. [1-H] From Ogle Co.; no specimen cited.

202. Martin, S.M. 1977. Oil bodies of selected leafy liverworts of east central Illinois. M.S. thesis. Eastern Illinois University, Charleston. vii + 59 p. [23-H] From Clark and Coles cos.; descriptions and table, with excellent color photomicrographs; no specimens cited, but vouchers at EIU; *Scapania curta* [?].

203. Matten, L.C. 1971. Upper Cretaceous flora of Illinois - A preliminary survey. American Journal of Botany 58:470. [1-H] From R-5, no specimen cited; " . . . one fragment reveals the presence of an encrusting liverwort conforming to the Metzgeriales."; abstract.

204. McBroom, R.L. 1977. The peristome teeth of selected genera of acrocarpous Musci of east central Illinois. M.S. thesis. Eastern Illinois University, Charleston. iii + 82 p. [19-M] From Clark and Coles cos.; illustrations and descriptions; no specimens cited.

205. McCleary, J.A., and P.L. Redfearn, Jr. 1979. Checklist of the mosses of Illinois. Transactions of the Illinois State Academy of Science 72(2):28-51. [321-M, 20-S] Checklist by county and region with distribution map for percentage of total species count in each county; nice bibliography; no specimens cited; contains some questionable reports (e.g., *Brachythecium collinum*, *Fabronia wrightii*, and *Hypnum subimponens*); see McKnight #207.

206. McGee, W.J. 1891. The Pleistocene history of northeastern Iowa. 11th Annual Report of the U.S. Geological Survey, Part I:189-577. [1-M] *Dichelyma* from La Salle Co. (p. 537), identified by T.P. James; no specimen cited.

207. McKnight, B.N. 1982. *Nardia lescurii*, new to Illinois. Bryologist 84:358. [1-H, 1-M] From Clark Co. (*826* ILL) in association with *Anomodon rostratus*.

208. McKnight, B.N. 1985. Notes on the Illinois bryophytes. I. Evansia 2:36-38. [2-H, 10-M] Additions and correction to the state bryoflora, with comments on *Bruchia* and the publication of Wolf & Hall (1878) and McCleary & Redfearn (1979); *Bryum klinggraeffii* (Champaign), *B. muehlenbeckii* (Pope), *Calliergon giganteum* (Lake), *Catoscopium nigritum* (Cook, McHenry), *Distichium capillaceum* (Jackson, Jo Daviess), *Ditrichum lineare* (Clark), *Dumortiera hirsuta* (Pope), *Grimmia plagiopoda* (Champaign), and *Scorpidium scorpioides* (Jackson, McHenry); specimens cited, vouchers at DUKE, ILLS, and MICH.

209. McKnight, B.N. 1986. The bryophytes of Champaign County, Illinois. Transactions of the Illinois State Academy of Science 79:35-52. [16-H, 106-M] Annotated checklists including 13 unconfirmed previous reports; habitat and frequency given; specimens cited (mostly at ILL and ILLS); discussion and map of presettlement vegetation; some taxa being maintained in axenic culture.

210. McKnight, B.N. 1986. Notes on the bryophytes of Indiana. I. Proceedings of the Indiana Academy of Science 95:101-107. [4-M] Specimens cited; *Brachylema subulatum, Catoscopium nigritum, Distichium capillaceum*, and *Syrrhopodon texanus*.

211. McKnight, B.N., and C.B. Arzeni. [In Prep.] The bryophytes of Rocky Hollow, Clark County, Illinois. Transactions of the Illinois State Academy of Science. [A, H, M, S] Annotated checklist, specimens cited, vouchers at ILLS; *Dicranum viride, Hookeria acutifolia, Ditrichum lineare, Nardia lescurii*, and *Ptilium crista-castrensis*.

212. Meyer, S.L. 1941. Physiological studies on mosses. II. Spore longevity in *Physcomitrium turbinatum* and *Funaria hygrometrica*. Bryologist 44:69-75. [1-M] *Physcomitrium turbinatum* from Illinois (1899, 1903) no county listed; vouchered at Johns Hopkins University Herbarium; cultivation information.

213. Miller, M.W. 1962. Nutritionally deficient mutants of *Marchantia polymorpha* L. Ph.D. dissertation. University of Chicago. ii + 34 p. [1-H] From Rock River clone 9 miles south of Oregon (Ogle Co.), no date or mention of voucher; culturing technique and data.

214. Miller, M.W., E.D. Garber, and P.D. Voth. 1962. Nutritionally deficient mutants of *Marchantia polymorpha* induced by X-rays. Botanical Gazette 124:94-102. [1-H] Gemmae harvested from Rock River clone collected by P. Voth 9 miles south of Oregon (Ogle Co.); no voucher mentioned.

215. Miller, N.G. 1979. Paleoecological comments on fossil mosses in a buried organic bed near Peoria, Tazewell County, Illinois. Page 116 *in* Wisconsinan, Sangamonian, and Illinoian stratigraphy in central Illinois. Illinois State Geological Survey Bulletin, Guidebook No. 13. 138 p. [5-M] *Bryum pseudotriquetrum, Campylium stellatum, Drepanocladus aduncus* var. *polycarpus, D. revolvens*, and *Mnium affine* var. *rugicum*; no specimens cited.

216. Miller, N.G. 1980. Quaternary fossil bryophytes in North America: catalog and annotated bibliography. Journal of the Hattori Botanical Laboratory 47:1-34. [5-M] *Calliergonella* (R-3), *Dichelyma* (R-3), *Drepanocladus* (R-3), *Hypnum* (Cook), and *Plagiothecium cavifolium* (McHenry); no specimens cited.

217. Miller, N.G. 1984. Tertiary and Quaternary fossils. Chapter 20. Pages 1194-1232 *in* R.M. Schuster (ed.), Vol. 2, New Manual of Bryology. Hattori Botanical Laboratory, Nichinan, Miyazaki, Japan. 1295 p. [8-M] *Bryum pseudotriquetrum, Campylium stellatum, Cinclidium stygium, Drepanocladus aduncus* var. *polycarpus, D. revolvens, Hypnum lindbergii, Plagiomnium*, and *Scorpidium turgescens* from Tazewell Co.; all except *Cinclidium* and *Plagiomnium* also from Jackson Co., plus 21 other unnamed species; no specimens cited; histogram comparing lengths of moss fossils; p. 1211,1212,1214.

218. Miller, N.G. 1985. Fossil evidence of the dispersal and establishment of mosses as gametophyte fragments. Monographs in Systematic Botany, Missouri Botanical Gardens 11:71-78. [8-M] Late Pleistocene deposit, Gardena section moss bed, Tazewell Co., 55cc sample of Woodfordian interstadial Wisconsinan peat moss dated at 19,680 years ± 460; accumulated at time of spruce dominance; evidence of rich fens; continuous presence of calcareous groundwater; *Bryum pseudotriquetrum, Campylium stellatum, Cinclidium stygium, Drepanocladus aduncus s.l., D. revolvens, Hypnum lindbergii, Mnium medium*, and *Scorpidium turgescens* (with abundant vegetative propagules); Fig: d-e *Scorpidium*, fragile bud and proliferated leafy stems.

219. Mohlenbrock, R.H. 1968. A floristic study of Bell Smith Springs, Pope County, Illinois. Transactions of the Illinois State Academy of Science 61:53-79. [1-M] *Grimmia* spp. (p. 58), the vegetation on the summit of the sandstone escarpment in the aboriginal zone consists mainly of lichens and mosses; no vouchers mentioned.

220. Mohlenbrock, R.H. 1968. A walk in Giant City. Outdoor Illinois 12(3):20-23. [1-H] *Conocephalum* from Union Co.; no voucher mentioned.

221. Mohlenbrock, R.H. 1982. Seep springs of the Cretaceous Hills. Illinois Audubon Bulletin 201:24-26. [1-S] *Sphagnum* from Pope Co.; no specimen cited.

222. Mohlenbrock, R.H., and J.W. Voigt. 1959. A study of the filmy fern *Trichomanes boschianum*. American Fern Journal 49:76-85. [6-H, 4-M] From Pope Co. in association with the filmy fern; nebulous about vouchers; (p. 81) *Bazzania trilobata, Calypogeia Trichomanes* [sic], *Diphyscium foliosum, Leucobryum glaucum, Leucolejeunea clypeata, Pellia diphylla* [sic], *Plagiochila asplenioides, Scapania nemorosa, Tetraphis pellucida, Thuidium delicatulum*, "and numerous others."

223. Mohr, C. 1901. Plant life of Alabama. Contribution from the U.S. National Herbarium VI:1-921. [3-H, 2-M] Obtained from literature, no counties given; *Bryum bicolor, Odontoschisma sphagni, Pleuridium alternifolium robustum, Reboulia hemisphaerica*, and *Riccia lutescens*; no specimens cited; p. 284-309.

224. Montgomery, C.E. 1930. Ecology of mosses of the Grand de Tour region of Illinois with special reference to pH relations. Ph.D. dissertation. University of Chicago. 45 p. [1-H, 62-M] From Ogle Co.; no specimens cited; *Mnium hornum, Encalypta ciliata*, and *Hylocomium triquetrum*; reprinted, with some omissions in Montgomery (1931).

225. Montgomery, C.E. 1931. Ecology of mosses of the Grand de Tour region of Illinois with special reference to pH relations. Botanical Gazette 91:225-251. [1-H, 62-M] From Ogle Co.; no specimens cited.

226. Morrow, J.S. 1952. Initial report on the mosses of McDonough County, Illinois. Transactions of the Illinois State Academy of Science 45:31. [17-M] Vouchers at WIU and in author's collection; all specimens checked by H.S. Conard but none cited; "clay pits" were chief collecting grounds.

227. Moser, J.W. 1970. An ultrastructural study of spermatogenesis in *Phaeoceros laevis* subsp. *carolinianus*. Ph.D. dissertation. University of Illinois, Urbana-Champaign. iv + 84 p. [1-A] From Johnson Co.; no voucher mentioned.

228. Moser, J.W., J.G. Duckett, and Z.B. Carothers. 1977. Ultrastructural studies of spermatogenesis in the Anthocerotales. I. The blepharoplast and anterior mitochondrion in *Phaeroceros laevis*: early development. American Journal of Botany 64:1097-1106. [1-A] *P. laevis* subsp. *carolinianus* from Johnson Co.; no voucher mentioned.

229. Neal, E.E. 1969. A floristic survey of Lake Vermont Park, McDonough County, Illinois. M.S. thesis. Western Illinois University, Macomb. vi + 125 p. [3-H, 13-M] Annotated checklist (p. 119-121); *Harpanthus scutatus* and *Mnium drummondii*.

230. Nees von Esenbeck, [C.G.D.]. [1834]. Verzeichniss der pflanzen welche der Prinz Maximilian von Wied von seiner Reise am obern Missouri mit zurückbrachte. [Published privately by author.] 28 p. [1-M] *Cryphaea inundata* (p. 27) "*In ramis fruticum inundatis ad flumina . . . Decembre fructu maturo.*", fruiting on inundated branches (in the Fox and Wabash rivers, White Co.) with mature fruits in December;

also reported from the Black River which, contrary to Nees von Esenbeck, and Welch (1960), is not in Illinois but Posey Co., Indiana (see McKnight #209).

231. **Nelson, N.L.T. 1911. Archegonatae - Bryophyta - (Hepaticae) (Musci). Pages 24-29** *in* **W.W. Ohlweiler, *et al.*, A preliminary checklist of the cryptogams and phanaerogams in the vicinity of Saint Louis, Missouri. Engelmann Botanical Club, Saint Louis, Missouri. 63 p.** [1-H, 13-M] *Amblystegium orthocladon, A. serpens, A. varium, Brachythecium cyrtophyllum, Dicranella debilis, D. heteromalla, D. varia, Funaria flavicans, F. hygrometrica, Leskea gracilescens, Marchantia polymorpha, Mnium cuspidatum,* and *Physcomitrium australe*; from Madison Co., specific sites listed; no specimens cited.

232. **Nishimura, N., and S. Inoue. 1985. A cytotaxonomic study of the genus *Ctenidium* (Musci). Hikobia 9:229-234.** [1-M] *C. malacodes* (=*C. molluscum* of North American material) from Coles Co., *McKnight 3100*, (n=8) mitotic count.

233. **O'Flaherty, L.M. 1978. *Sphagnum centrale* new to Illinois. Bryologist 81:613-614.** [1-S] From Lake Co., *McFeely 27* (MICH, MWI).

234. **O'Flaherty, L.M., and G.W. Freeman. 1979. Eleven mosses new to Illinois. Bryologist 82:609-612.** [1-A, 19-H, 124-M, 1-S] From Hancock Co.; notes and checklist, specimens cited only for 11 state records, vouchers at WARK; *Atrichum tenellum* [?], *Brachythecium reflexum, Grimmia anodon, Orthotrichum anomalum, Sphaerocarpus texanus,* and *Sphagnum capillifolium* var. *tenerum*.

235. **O'Flaherty, L.M., J.D. Ives, and A.R. Ozimek. 1975. *Sphagnum fimbriatum* new to Illinois. Bryologist 78:455-458.** [2-H, 10-M, 2-S] From Clark (0,0,1), Lake (0,4,1), and McDonough (2,8,2) cos.; some specimens cited, vouchers of sphagna at SMS and all taxa at MWI.

236. **O'Hanlon, M.E. 1928. Notes on *Reboulia hemisphaerica*. Bryologist 31:47-51.** [1-H] From Cook Co.; no specimen cited.

237. **O'Hanlon, M.E. 1930. Gametophyte development in *Reboulia hemisphaerica*. American Journal of Botany 17:765-769.** [1-H] From Cook Co.; no specimen cited.

238. **Ott, C.E. 1968. Vegetation of fresh-water springs in southern Illinois. M.A. thesis. Southern Illinois University, Carbondale. iv + 86 p.** [2-A, 13-H, 37-M] Annotated checklist (p. 56-60), site maps, vouchers at SIU but no specimens cited; some inaccurate topographic data; reprinted with some omissions in Hopkins (1969).

239. **Paolillo, D.J., Jr., and F.A. Bazzaz. 1968. Photosynthesis in sporophytes of *Polytrichum* and *Funaria*. Bryologist 7:335-343.** [1-M] *F. hygrometrica* from Champaign Co.; no voucher mentioned.

240. **Papp, C. 1933. Contribution à la Monographie du *Polytrichum juniperinum* Willd. Revue Bryologique et Lichénologique 60:154-170.** [1-M] *P. juniperinum* var. *rubrum* from Illinois, no county listed; no specimen cited; p. 163.

241. **Parker, A. 1985. A botanical investigation of Pounds Hollow, Gallatin County, Illinois. M.S. thesis. Southern Illinois University, Carbondale. vii + 122 p.** [40-H, 58-M] Annotated checklist for Gallatin Co. (p. 42-44, Appendices 4 and 5), vouchers at SIU, SMS, and/or author's collection; 58 mosses listed but only 46 found during this study, 31 liverworts listed "and five additional species will be added to the flora when these [sic] are determined"; specimens cited for most taxa, frequency ratings; *Grimmia laevigata, Metzgeria conjugata,* and *Syrrhopodon texanus*.

242. **Patterson, H.N. 1874. A list of plants collected in the vicinity of Oquawka, Henderson County, Ills. Oquawka Spectator Print. 18 p.** [37-M] Checklist (p. 18) determined by Dr. James; but no specimens cited.

243. **Penny, N.D. 1974. A systematic study of the family Boreidae (Mecoptera). Ph.D. dissertation. University of Kansas, Lawrence. iv + 162 p.** [2-M] "*Boreus brumalis* larvae can be collected at any time of the year in their southern Illinois habitats, where they are found tunneling just beneath the rhizoids of *Dicranella heteromalla* and *Atrichum angustatum*. In the same areas, larvae and adults are most frequently collected on moss on sandy loam soil rather than mossy rocks, as are other species in other areas.", (p. 60).

244. **Penny, N.D. 1977. A systematic study of the family Boreidae (Mecoptera). The University of Kansas Science Bulletin 51:141-217.** [2-M] Page 189, exact quote from p. 60 of Penny, 1974.

245. **Pepoon, H.S. 1909. The cliff flora of Jo Daviess County, Illinois. Transactions of the Illinois State Academy of Science 2:32-37.** [3-H] "Many rock mosses form green matted layers covering the rock face, . . . with numerous algae intermixed, particularly *Spirogyra* species. *Marchantia* and *Lunularia* [misdetermined] or, less abundantly, *Conocephalus* [sic], are liverwort forms that often clothe great spaces with a solid green covering and winter or summer are obtainable for purposes of study or collection." (p. 34); *Marchantia* (p. 37); no vouchers mentioned.

246. **Pepoon, H.S. 1927. An annotated flora of the Chicago area. Chicago Academy of Science Bulletin, Natural History Survey VIII. xxii + 554 p.** [M, 14-S] From Cook Co. but only one species listed; no vouchers mentioned; p. 24, " . . . various mosses are abundant"; p. 77, "The pin oak in the sand region is commonly associated in its ground flora with ericaceous shrubs . . . also with species of *Sphagnum* or peat moss, that do not always require the wettest conditions, such as *Sphagnum compactum* DC."; p. 88, "Of about sixteen species of *Sphagnum* that I have detected from the vicinity of the Des Plaines River southwest of Berwyn to the neighborhood of Michigan City [Indiana], all but one or two are in the region from Thorton eastward."; p. 92, " . . . having collected and studied the mosses of the district quite extensively, especially in their soil relations, the evidence or preference for calcareous or silicious conditions as given in works on bryology is not conclusive."; also p. 89 and 90.

247. **Peterson, W. 1977. Clarification of the nomenclature of *Dicranum condensatum*. Bryologist 80:365-368.** [1-M] From R-5 on dot map; no specimen cited.

248. **Pfeiffer, N.E. 1914. Morphology of *Thismia americana*. Botanical Gazette 57:122-135 + 11 pl.** [1-H, 1-M] From Cook Co., observed in 1912 but no mention of voucher; p. 124, " . . . *Aneura pinguis* and *Hypnum* [probably *Drepanocladus*] in association with *Thismia* in low prairie. Usually the *Thismia* grows in spots where the soil is not closely covered by *Aneura* and *Selaginella* but it may be found occasionally among the moss (Fig. 3)."

249. **Proskauer, J. 1957. Studies on Anthocerotales V. 10. On a polyploid *Anthoceros* and the karyotypes of liverworts. Phytomorphology 7(2):130-133.** [1-A] *Notothylas orbicularis* from Illinois, no county given; no specimen cited; count not certain.

250. **Pursell, R.A. 1957. A taxonomic revision of North American *Fissidens*, section Bryoidium. Ph.D. dissertation. Florida State University. iii + 115 p. + pl. IX.** [2-M] Page 78, *F. pusillus* from Clark Co., *Vaughn 42* as *F. incurvus*; p. 97, *F. viridulus* var. *brevifolius* from Will Co., *Hill* (NY) as *F. synoicus* and *Hill* (NY) 1899.

251. **Rastorfer, J.R. 1981. Composition and distribution patterns of bryophytes at a reclaimed surface mine in Grundy County, Illinois, with a list of vascular plants. Argonne National Laboratory/Land Reclamation Program - 16, Argonne, Illinois. 75 p.** [1-A, 6-H, 38-M, 1-S] Includes taxa previously reported by Zales (1971); successional information

with excellent site distribution maps; no specimens cited; *Sphagnum compactum*.

252. Rau, E.A., and A.B. Hervey. 1879. Catalogue of North American Musci. Gazette Job Office, Taunton, Massachusetts. 52 p. [25-M] From unspecified Illinois locations; no specimens cited.

253. Redfearn, P.L., Jr. 1966. Bryophytes of the Interior Highlands of North America XI. Additions to the flora. Bryologist 69:504-508. [1-A, 9-M] Annotated checklist with specimens cited, vouchers at various herbaria; *Brotherella tenuirostris* (Pope, Williamson), *Campylopus flexuosus* (Franklin), *Ctenidium molluscum* (Jackson), *Entodon macropodus* (Union), *Mnium hornum* [misidentified *M. marginatum*] (Jackson), *M. orthorrhynchum* (Johnson), *Notothylas orbicularis* (Union), *Plagiothecium roseanum* (Jackson, Johnson, Williamson), *Sematophyllum demissum* (Johnson, Pope, Williamson), *Syrrhopodon texanus* (Johnson), and *Tortula pagorum* (Randolph).

254. Redfearn, P.L., Jr. 1968. Bryophytes of the Interior Highlands of North America XIII. Additions to the flora. Bryologist 71:356-357. [10-M] Annotated checklist with specimens cited, vouchers at various herbaria; *Acaulon rufescens* (Jackson), *Brothera leana* (Jackson, Pope, Saline, Union), *Dicranum spurium* (Pope), *Herpetineuron toccoae* (Union), *Homalotheciella subcapillata* (Pope), *Hypnum cupressiforme* (Randolph), *Isopterygium muellerianum* (Pope), *Schwetschkeopsis fabronia* (Union), *Sciaromium lescurii* (Pope), and *Sematophyllum marylandicum* (Pope).

255. Redfearn, P.L., Jr. 1972. Mosses of the Interior Highlands of North America. Annals of the Missouri Botanical Garden 59:1-103. [50-M, 4-S] Numerous taxa from R-4 and R-5 (all or part of 16 southernmost counties), no specific counties given; no specimens cited; key and annotated checklist with frequency rating, vouchers at SMS.

256. Redfearn, P.L., Jr. 1983. Checklist of the Interior Highlands of North America in Arkansas, Illinois, Missouri, and Oklahoma. Contributions from the Ozark Regional Herbarium, Southwest Missouri State University, Springfield. 143 p. [159-M, 6-S] From Alexander (3,0), Franklin (6,0), Gallatin (14,0), Hardin (12,0), Jackson (97,1), Johnson (101,2), Massac (3,0), Pope (102,5), Pulaski (4,0), Randolph (102,3), Saline (58,0), Union (85,0), and Williamson (54,0) cos.; no specimens cited.

257. Redfearn, P.L., Jr. 1983. Mosses of the Interior Highlands of North America. (Second printing, with changes and additions). Missouri Botanical Garden, St. Louis. viii + 103p. [52-M, 5-S] Taxa reported from the Ozark Hills (16 southernmost counties) with a few specific sites given, numerous other implied reports listed nebulously under Interior Highlands; keys, descriptions, ecological information, and frequency rating; no specimens cited; vouchers at SMS; *Anacamptodon splachnoides* (Pope) and *Helodium paludosum* (Pope); reprint, with changes and additions, of Redfearn (1972).

258. Reese, W.D. 1984. Reproductivity, fertility and range of *Syrrhopodon texanus* Sull. (Musci; Calymperaceae), a North American endemic. Bryologist 87:217-222. [1-M] From Gallatin, Johnson, and Saline cos.; dot map; specimens examined but not cited; "... discontinuous and presumably relictual populations."

259. Reichle, D.E. 1964. The population ecology, distribution and abundance of bog-inhabiting pselaphid beetles. Ph.D. dissertation. Northwestern University, Evanston, Illinois. ii + 209 p. [14-M, 5-S] From Lake Co.; same taxa listed in Reichle (1964) except *Climacium dendroides* given instead of *C. americanum*; "moss" from Cook Co.; "moss and sphagnum" from McHenry Co.; (p. 198) black and white photo of *Sphagnum magellanicum*, *S. recurvum*, and *S. teres*; no mention of vouchers.

260. Reichle, D.E. 1969. Distribution and abundance of bog-inhabiting pselaphid beetles. Transactions of the Illinois State Academy of Science 62:233-264. [14-M, 5-S] From Lake Co., no mention of vouchers; *Aulacomnium androgynum*, *Brachythecium*, *Callicladium haldanianum*, *Calliergon cordifolium*, *Climacium americanum*, *Dicranum scoparium*, *Helodium paludosum*, *Mnium affine* var. *rugicum*, *M. cuspidatum*, *Plagiothecium sylvaticum*, *Pohlia nutans*, *Polytrichum commune*, *Sphagnum cymbifolium*, *S. magellanicum*, *S. recurvum*, *S. squarrosum*, *S teres*, *Tetraphis pellucida*, and *Thuidium delicatulum*.

261. Reichle, D.E., and W.T. Doyle. 1965. Bryophyte succession in a northern Illinois bog. Bryologist 68:463-470. [17-M, 4-S] From Lake Co.; no specimens cited; interesting discussion and habitat data.

262. Renzaglia, K.S. 1977. Developmental morphology and comparative anatomy in representatives of five genera of Anthocerotes. M.S. thesis. Southern Illinois University, Carbondale. ii + 82 p. [3-A] Reprinted in Renzaglia (1978) with same taxa and locations except *Anthoceros punctatus* from Saline Co.; specimens cited.

263. Renzaglia, K.S. 1978. A comparative morphology and developmental anatomy of the Anthocerophyta. Journal of the Hattori Botanical Laboratory 44:31-90. [3-A] *Anthoceros punctatus* (Gallatin, Jackson), *Notothylas orbicularis* (Jackson), and *Phaeoceros laevis* (Jackson, Williamson); vouchers at SIU; reprint of Renzaglia (1977).

264. Renzaglia, K.S. 1981. A comparative developmental investigation of the gametophyte generation in the Metzgeriales (Hepatophyta). Ph.D. dissertation. Southern Illinois University, Carbondale. x + 251 p. [7-H] From R-5; no voucher data; reprinted in Renzaglia (1982).

265. Renzaglia, K.S. 1982. A comparative developmental investigation of the gametophyte generation in the Metzgeriales (Hepatophyta). Bryophytorum Bibliotheca Vol. 24. J. Kramer, Vaduz, West Germany. x + 253 p. [7-H] *Aneura pinguis*, *Fossombronia*, *Metzgeria conjugata*, *M. furcata*, *Pallavicinia lyellii*, *Pellia epiphylla*, and *Riccardia multifida* from R-5; no voucher data; reprint, with some omissions, of Renzaglia (1981).

266. Richards, D. 1940. Bryophytes of Starved Rock State Park, La Salle County, Illinois. Transactions of the Illinois State Academy of Science 33:74-77. [1-A, 17-H, 32-M, 1-S] Annotated checklist with specimens cited, vouchers in several herbaria; *Fissidens grandifrons* and *Sphagnum girgensohnii*.

267. Robertson, K.R., W.E. McClain, and A.C. Koelling. 1983. First confirmation of *Erythronium mesochoreum* (Liliaceae) east of the Mississippi River. Castanea 48:146-150. [1-A, 6-M] Checklist from Macoupin Co. railroad prairie; vouchers at ILLS, no specimens cited; *Atrichum angustatum*, *Bruchia flexuosa*, *Campylium chrysophyllum*, *Ditrichum pallidum*, *Phaeoceros laevis*, *Physcomitrium pyriforme*, and *Pleuridium subulatum*; collected and identified by B.N. McKnight

268. Robinson, H. 1962. Generic revisions of North American Brachytheciaceae. Bryologist 65:73-146. [1-M] *Brachythecium rivulare* var. *noveboracense* from Illinois vouchered at NY; no specimen cited

269. Röll, J. 1893. Nordamerikanische laubmoose, torfmoose, und lebermoose. Hedwigia 32:181-203, 260-309, 334-402. [2-H, 62-M] Checklist for Cook, Lake, and Winnebago cos.; specimens cited

270. Rohde, C.J., Jr. 1955. Studies on anthropods from a moss habitat with special emphasis on the life history of three oribatoid mites. Ph.D. dissertation. Northwestern University, Evanston, Illinois. vi + 84 p. [5-M] From La Salle Co. no vouchers mentioned; map of study area; collected between 20 June 1953 and 9 October 1954; *Brachythecium* sp., *B. salebrosum*, *Bryhnia graminicolor*, *Mnium cuspidatum*, and

Timmia megapolitana; (p. 2) " . . . mosses and liverworts are in abundance where the low mats formed by these plants overlie almost pure quartz [?]."; (p. 5) "No correlation between arthropod inhabitants and species of moss noted."

271. Royse, D.J. 1974. The corticolous mosses of east central Illinois. M.S. thesis. Eastern Illinois University, Charleston. iv + 229 p. [57-M] Annotated checklist for Clark, Coles, and Cumberland cos. (not separated by county); descriptions and illustrations; vouchers in author's collection and at EIU, but no specimens cited.

272. Royse, D.J., and C.B. Arzeni. 1975. A richer awareness. A casual hike in any Illinois woodland offers a laboratory of mosses and liverwort. Outdoor Illinois 14(3):40-42. [4-H, 14-M, S] From R-4; " . . . 57 different corticolous bryophytes in east central Illinois . . . ", but only 18 listed, several only to genus; no specimens cited.

273. Rubin, M., and C. Alexander. 1958. U.S. Geological Survey radiocarbon dates IV. Science 127:1476-1487. [2-M] *Calliergonella* and *Drepanocladus* from McLean Co. (p. 1478), aged to 24,700 years ±1000; identified by W. Welch, but no specimens cited.

274. Rushing, A.E. 1982. A revision of the genus *Bruchia* Schwaegr. [Musci]. Ph.D. dissertation. Texas A & M University, College Station. xiii + 221 p. [1-M] *B. flexuosa* from McHenry and Stark cos.; specimens examined (NY).

275. Rushing, A.E. 1986. A revision of the genus *Bruchia* Schwaegr. (Musci). Journal of the Hattori Botanical Laboratory 60:35-83. [1-M] Page 67, *B. flexuosa* from Champaign, Clark, Cook, Fulton, Macoupin, McHenry, Menard, Pulaski, and Stark cos.; with specimens cited.

276. Schertler, M.M. 1976. Morphology and developmental anatomy in the leafy hepatic *Nowellia curvifolia* (Dicks.) Mitt. M.S. thesis. Southern Illinois University, Carbondale. iv + 72 p. [1-H] From Jackson and Williamson cos.; specimens cited; illustrations and voucher data.

277. Schertler, M.M. 1979. Development of the archegonium and embryo in *Lophocolea heterophylla*. Bryologist 82:576-582. [1-H] From Jackson and Williamson cos.; specimens cited.

278. Schiller, C.T. 1976. Jungermanniales of Coles and Clark counties of Illinois. M.S. thesis. Eastern Illinois University, Charleston. iv + 136 p. [20-H] From Clark (19) and Coles cos. (13); no specimens cited, vouchers at EIU [?]; descriptions, illustrations, and key.

279. Schnooberger, I. 1942. Distribution of *Tortula papillosa* Wils. Bryologist 45:24-27. [1-M] From unspecified Illinois location; from literature (Hague, 1930).

280. Schofield, W.B. 1972. Bryology in Arctic and Boreal North America and Greenland. Canadian Journal of Botany 50:1111-1133. [2-M] Dot maps but no specimens cited; p. 1121 (Fig. 10) *Hypnum imponens* three to four populations; p. 1122 (Fig. 15) *Tetraphis pellucida* three to four populations.

281. Schofield, W.B. 1980. Phytogeography of the mosses of North America (north of Mexico). Pages 131-170 *in* R.J. Taylor and A.E. Leviton (eds.), The mosses of North America. Pacific Division, American Association for the Advancement of Science, San Francisco. 170 p. [7-M] *Dicranum condensatum* (R-5), *Grimmia pilifera* (IL), *Isopterygium elegans* (R-5), *Orthotrichum ohioense* (R-1), *Physcomitrium hookeri* (R-5), *Schwetschkeopsis fabronia* (IL), and *Thelia hirtella* (R-3); dot maps; no specimens cited.

282. Schofield, W.B., and H.A. Crum. 1972. Disjunctions in bryophytes. Annals of the Missouri Botanical Garden 59:174-202. [5-M] Range maps; no specimens cited; *Atrichum crispum*, *Aulacomnium heterostichum*, *Drepanocladus uncinatus* (R-1,2), *Drummondia prorepens*, and *Hylocomium splendens* (R-1,2,3,4).

283. Schuster, R.M. 1953. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. American Midland Naturalist 49:257-684. [3-H] *Fossombronia cristula*, *Riccia sorocarpa*, and *R. sullivantii* from Illinois, no counties listed; no specimens cited; reprinted in Schuster (1977).

284. Schuster, R.M. 1957. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. II. Ecology. American Midland Naturalist 57(1-2):203-332. [3-H] From R-1 and unspecified Illinois location; (p. 209) "*Clevea hyalina*, *Mannia sibirica*, and *Asterella saccata* could have conceivably survived the Pleistocene in . . . Driftless Area . . . in Illinois."; (p. 203) " . . . over 90% of species found in Illinois have also been found in Minnesota . . . "; reprinted in Schuster (1977).

285. Schuster, R.M. 1958. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. III. Phytogeography. American Midland Naturalist 59:257-332. [3-H] *Mannia fragrans* (R-3), *M. rupestris* (R-1,2), and *Reboulia hemisphaerica* (R-1,2,3); dot maps (p. 274); no specimens cited; reprinted in Schuster (1977).

286. Schuster, R.M. 1958. Notes on Nearctic Hepaticae VI. Phytogeograhical relationships of critical species in Minnesota and adjacent areas of the Great Lakes. Rhodora 60:209-234, 243-256. [1-H] Page 211, Cordilleran species are also found in the Driftless Area in Illinois; p. 245, *Mannia rupestris* is infrequent in the Driftless Area in Illinois, two dots on map (Fig. 17) from R-1,2.

287. Schuster, R.M. 1959. A monograph of the Nearctic Plagiochilaceae. Part I. Introduction and section I. Asplenioides. American Midland Naturalist 62:1-166. [3-H] *Mylia taylori*, (p. 47) " . . . the report from Illinois in Frye and Clark (loc. cit.) based on the old list of Wolf and Hall being wholly without merit."; (p. 65) *Pedinophyllum interruptum*, the Illinois report by Frye and Clark is ". . . ambiguous and should not be accepted without study of the material in question."; (p. 118) *Plagiochila asplenioides* from La Salle and Jackson cos.

288. Schuster, R.M. 1960. A monograph of the Nearctic Plagiochilaceae. Part III. Section *contiguae* to conclusion. American Midland Naturalist 63:1-130. [1-H] "The report of *Plagiochila undata* from Illinois (Frye & Clark, loc. cit.) should be verified. On phytogeographic grounds it appears improbable that the species should occur in Illinois." (p. 118).

289. Schuster, R.M. 1966. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. I. Columbia University Press, New York. xvii + 802 p. [4-H] *Blepharostoma trichophyllum* (IL), *Ptilidium ciliare* (IL), *P. pulcherrimum* (Champaign), and *Trichocolea tomentella* (Jackson); from literature; no specimens cited.

290. Schuster, R.M. 1969. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. II. Columbia University Press, New York. xii + 1062p. [10-H] *Bazzania trilobata* (Jackson), *Calypogeia trichomanis* (Clark), *Jamesoniella autumnalis* (Champaign), *Jungermannia lanceolata* (IL), *Lophozia incisa* (Clark), *Plectocolea crenuliformis* (Clark), *P. fossombronioides* (Fulton), *P. hyalinum* (Clark), *Solenostoma pumila* (Montgomery), and *S. gracillimum* (Clark); some specimens cited.

291. Schuster, R.M. 1974. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. III. Columbia University Press, New York. xiv + 880 p. [8-H] *Cephalozia bicuspidata* (Jackson), *C. connivens* (Clark, Coles), *C. lunulifolia* (Clark), *Nowellia curvifolia* (IL), *Odontoschisma prostatum* (Jackson) "highly skeptical", *Pleurocladа albescens* (IL) "undoubtedly an error", *Scapania nemorosa* (IL), and *S.*

undulata "error for *S. nemorosa*"; from literature, some specimens cited.

292. Schuster, R.M. 1977. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. Bryophytorum Bibliotheca. Vol. 11. J. Cramer, Vaduz, West Germany. [H] Reprint, with minor corrections, of Schuster (1953, 1957, 1958).

293. Schuster, R.M. 1980. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. IV. Columbia University Press, New York. xviii + 1334 p. [18-H] *Cephaloziella byssacea, C. elachista* var. *augustiloba* (Randolph), *C. rubella* var. *sullivantii* (Fulton), *C. spinigera, Chiloscyphus pallescens, Geocalyx graveolens, Harpanthus scutatus* "unreliable", *Lophocolea bidentata* "unreliable, meaningless," *L. cuspidata, L. cuspidata* fo. *alata* "erroneously" (Champaign), *L. heterophylla, L. minor* (Champaign), *Plagiochila asplenioides* (Jackson, La Salle), *P. undata* "needs verification" (So. Ill.), *Porella pinnata* (Wabash), *P. platyphylla* (Champaign, Du Page, Union), and *Radula obconica* (Jackson); some specimens cited.

294. Schwegman, J.E. 1969. Vegetation of some seep springs in the Cretaceous Hills of southern Illinois. M.A. thesis. Southern Illinois University, Carbondale. vi + 81 p. [1-H, 13-M, 1-S] Annotated checklist (p. 46-47); *Amblystegium trichopodium, Atrichum angustatum, A. undulatum, Aulacomnium palustre, Brachythecium rivulare, Bryhnia novae-angliae, Cirriphyllium boscii, Climacium americanum, Helodium paludosum, Leucobryum albidum, Mnium cuspidatum, Pallavicinia lyellii, Polytrichum ohioense, Sphagnum imbricatum,* and *Thuidium delicatulum* from Pope Co.; no specimens cited, vouchers at SIU.

295. Schwegman, J.E. 1986. Algific (cold-producing) slopes in Illinois and their vascular flora. Erigenia 7:3-14. [1-H] From Jo Daviess, p. 6, "At the cold slope which appears to have been disturbed by cattle, patches 3 to 4 feet across are dominated by . . . *Marchantia* . . . .However, since cold patches at Asgard do not support similar liverwort communities, I interpret them as successional stages from past soil disturbance."; no specimen cited, but voucher housed at ILLS.

296. Sharp, A.J. 1939. Taxonomic and ecological studies of eastern Tennessee bryophytes. The American Midland Naturalist 21:267-354 + vii. [3-M] Page 332, *Brothera leana* on dot map from R-4 [approximately Macoupin Co.]; p. 341, *Leucobryum albidum* on shaded range map from southeastern corner of state (R-5); p. 342, *Thuidium minutulum* on shaded range map from R-4,5.

297. Sharp, A.J., and L.E. Anderson. 1981. An unusual substrate for knothole moss, *Anacamptodon splachnoides*. Bryologist 84:539-542. [1-M] Reported by Crum (1958) from Illinois; no specimen cited.

298. Sharp, L.W. 1920. Spermatogenesis in *Blasia*. Botanical Gazette 69:258-268 + pl. XV. [1-H] *Blasia pusilla* collected near Chicago [probably Cook Co.]; no mention of voucher.

299. Shaw, A.J. 1981. A taxonomic revision of the propaguliferous species of *Pohlia* (Musci) in North America. Journal of the Hattori Botanical Laboratory 50:1-81. [1-M] *P. proligera* from La Salle Co., *Redfearn 29144* (SMS).

300. Shaw, A.J. 1981. Ecological diversification among nine species of *Pohlia* (Musci) in western North America. Canadian Journal of Botany 59:2359-2378. [1-M] *P. proligera* on dot map from La Salle Co. (p. 2362); no specimen cited.

301. Shaw, [A.]J. 1982. *Pohlia* Hedw. (Musci) in North and Central America and the West Indies. Contributions from the University of Michigan Herbarium 15:219-295. [4-M] *P. melanodon* from Illinois, no counties listed; *P. nutans* shaded range map from all of Illinois; *P. proligera* one population from R-1; *P. wahlenbergii* from three populations in R-3; no specimens cited; p. 276,287,292,293; very similar to Ph.D. dissertation.

302. Shaw, A.J. 1983. Phylogeny and ecology of *Pohlia* Hedw. with a revision of the species of North and Central America. Ph.D. dissertation. University of Michigan, Ann Arbor. vii + 272 p. [4-M] *P. melanodon* from Illinois (sterile specimens); *P. nutans* on shaded range map from all of Illinois; *P. proligera* from one population (R-2); *P. wahlenbergii* from five populations (R-3,4); very small dot maps; no specimens cited.

303. Sheviak, C.J., and A. Haney. 1973. Ecological interpretations of the vegetation patterns of Volo Bog, Lake County, Illinois. Transactions of the Illinois State Academy of Science 66:99-112. [1-S] *Sphagnum recurvum*; no voucher mentioned.

304. Sholl, R.D. 1970. The occurrence and distribution of the bryophytes of Lake Argyle State Park. M.S. thesis. Western Illinois University, Macomb. vi + 81 p. [1-A, 4-H, 65-M] Annotated checklist for McDonough Co. with key and maps; vouchers at WIU, but no specimens cited.

305. Sholl, R.D., and J.D. Ives. 1973. The microenvironment of *Climacium americanum*. Transactions of the Illinois State Academy of Science 66(3-4):97-104. [3-M] From McDonough Co. in association with *Bartramia pomiformis* and *Thuidium recognitum*; no specimens cited.

306. Short, C.W. 1845. Observations on the botany of Illinois, more especially in reference to the autumnal flora of the prairies. The Western Journal of Medicine and Surgery, New Series 3:185-198. [M] Page 193, "Ferns are remarkable rare on the prairies; indeed . . . .The same remarks will apply, in a good degree, to the tribe of mosses."

307. Simon, T.M. 1977. Saxicolous bryophytes of Coles and Clark Counties. M.S. thesis. Eastern Illinois University, Charleston. xi + 236 p. [1-A, 23-H, 38-M] Annotated checklist with descriptions and illustrations, vouchers in author's collection and at EIU but no specimens cited.

308. Skorepa, A.C. 1968. Liverworts from southern Illinois. Bryologist 71:129-138. [3-A, 55-H, 3-M] Notes and annotated checklist for Clark (0,3,0), Coles (0,1,0), Gallatin (0,10,0), Hardin (0,1,0), Jackson (2,36,0), Johnson (0,18,0), Pope (2,37,0), Randolph (0,6,0), Saline (0,6,0), and Union (1,22,0) cos.; specimens cited, vouchers at SIU; *Bazzania tricrenata, Lejeunea lamacerina, Marsupella sullivantii, Plagiochila undata, Scapania undulata,* and *Trichocolea tomentella*.

309. Skorepa, A.C. 1973. Taxonomic and ecological studies on the lichens of southern Illinois. Ph.D. dissertation. University of Tennessee, Knoxville. vi + 248 p. [1-H, 3-M] *Dicranum scoparium, Grimmia laevigata, Polytrichum commune,* and *Scapania* from Pope Co. and R-5, no vouchers mentioned; 8 lichens growing on "moss"; (p. 62,63, 66,69,84,149,237).

310. Skorepa, A.C., and J.A. Snider. 1967. Some unusual lower plants from Lusk Creek Canyon, Pope County, Illinois. Transactions of the Illinois State Academy of Science 60:105-106. [1-M, 2-S] Annotated checklist with specimens cited, vouchers at SIU; *Dicranum spurium, Sphagnum compactum,* and *S. tenerum*.

311. Smith, A.J. 1964. Some evidences of succession in a northern Illinois quarry. M.S. thesis. Northern Illinois University, De Kalb. vi + 64 p. [M] From Kane Co.; much discussion of mosses, including photos, but no scientific names; "The conclusions of the study may be drawn without specific identification of these small plants . . . .non-vascular plant taxonomy has been avoided."; no vouchers mentioned; p 2,27,30,31

312. Smith, D.K. 1980. *Funaria americana* Lindb. in North America. Bryologist 83:335-339. [1-M] From Cook and Will

cos.; specimens cited, also reported in literature (Hill, 1916; Lawton, 1971); the two sites are a pair of loess bluffs along main channel of proglacial Lake Chicago; dot map.

313. Smith, G.L. 1969. Conspectus of the genera of Polytrichaceae (Bryophyta). Ph.D. dissertation. Columbia University, New York. [iii] + 173 p. [2-M] Page 111, *Atrichum* on shaded range map from all of Illinois; p. 107, *Pogonatum* on shaded range map from all except R-2.

314. Smith, G.L. 1977. *Atrichum cylindricum* (Polytrichaceae), an overlooked moss in the southeastern United States. Brittonia 29:368-375. [1-M] "*Atrichum cylindricum* is probably distributed throughout the Mississippi Embayment, . . . , and it may also be in southern Illinois. . . ." (p. 374).

315. Snider, J.A. 1970. The genus *Sphagnum* in Illinois. Transactions of the Illinois State Academy of Science 63:329-338. [16-S] Annotated checklist for Clark (5), Cook (6), Fulton (1), Grundy (1), Jackson (1), Johnson (3), Kankakee (1), Kendall (1), Lake (13), La Salle (2), Massac (1), McHenry (4), Pope (4), Randolph (2), Will (2), and Williamson (1) cos.; specimens cited, vouchers at DUKE, F, ILL, ILLS, and SIU.

316. Snider, J.A. 1973. A revision of the genus *Archidium* (Musci). Ph.D. dissertation. Duke University, Durham, North Carolina. xii + 306 p. [3-M] *A. alternifolium*, *A. donnelli*, and *A. ohioense* on dot maps from Menard Co. [probably]; *A. ohioense* also from Cook Co.; some specimens cited; p. 114,150,212,213,215.

317. Snider, J.A. 1975. A revision of the genus *Archidium* (Musci). Journal of the Hattori Botanical Laboratory 39:105-201. [3-M] *A. alternifolium* (Menard), *A. donnellii* (Menard), and *A. ohioense* (Cook, Menard); dot maps and specimens cited; reprint, with some changes, of Snider (1973).

318. Snider, J.A. 1982. Bryophytes. Pages 14-21 *in* **T.S. Cooperrider (ed.), Endangered and threatened plants of Ohio. Ohio Biological Survey, Biological Notes No. 16, iv + 92 p.** [1-H, 2-M, 2-S] Annotated checklist without reference to specific counties or basis for reports; no specimens cited; *Archidium ohioense*, *Discelium nudum*, *Pedinophyllum interruptum*, *Sphagnum capillaceum*, and *S. fimbriatum*.

319. Spessard, L.L. 1972. The bryophytes of Shelby County. M.S. thesis. Eastern Illinois University, Charleston. viii + 430 p. [1-A, 15-H, 80-M] Checklist with descriptions and stylized illustrations; statewide distribution given (based on literature) including reports from 42 additional counties, especially Clark (1,14,65), Coles (1,13,65), and Fulton (1,6,44); vouchers at EIU, but no specimens cited.

320. Spessard, L.L. 1975. Five mosses new to Illinois. Bryologist 78:86. [5-M] Annotated checklist for Shelby Co.; specimens cited, vouchers at EIU; *Brachythecium campestre*, *Fissidens bushii*, *Pohlia wahlenbergii*, *Pylaisiella selwynii*, and *Ulota crispa*.

321. Spessard, L.L., and C.B. Arzeni. 1975. Bryophytes of Shelby County, Illinois. Transactions of the Illinois State Academy of Science 68:29-35. [1-A, 15-H, 71-M] Annotated checklist with specimens cited, vouchers at EIU; *Bazzania trilobata* and *Ulota crispa*.

322. Spiess, L.D. 1976. Developmental effects of zeatin, ribosylzeatin, and *Agrobacterium tumefaciens* B6 on certain mosses. Plant Physiology 58:107-109. [8-M] "Collected locally" from Lake Forest area [probably Lake Co.]; identified by Crum, Stotler, and Zehr, no vouchers mentioned; *Atrichum angustatum*, *Callicladium haldanianum*, *Climacium americanum*, *Entodon seductrix*, *Funaria hygrometrica*, *Polytrichum commune*, *Pylaisiella selwynii*, and *Thuidium delicatulum*.

323. Spiess, L.D., B.B. Lippincott, and J.A. Lippincott. 1981. Bacteria isolated from moss and their effect on moss development. Botanical Gazette 142:512-518. [3-M] *Amblystegium varium*, *Funaria americana*, and *Pylaisiella selwynii* from Cook Co.: no vouchers mentioned.

324. Spiess, L.D., B.B. Lippincott, and J.A. Lippincott. 1971. Development and gametophore initiation in the moss *Pylaisiella selwynii* as influenced by *Agrobacterium tumefaciens*. American Journal of Botany 58:726-731. [1-M] From Cook Co.: no voucher mentioned.

325. Steere, W.C. 1933. The association of *Bartramia pomiformis* and *Aulacomnium heterostichum*. Bryologist 36:14-15. [2-M] Montgomery (1931) has reported on a similiar study of the relation of hydrogen-ion concentration to habitat in the Grand de Tour region [Ogle Co.] of Illinois. He tested the reaction not only of the substratum, but also of the mosses themselves, and usually found them to be more alkaline than the soil beneath them. *Bartramia* and *Aulacomnium* were reported to range from the neutral point to somewhat alkaline, the majority of the specimens tested having a pH of 7.2; no vouchers mentioned.

326. Steere, W.C. 1940. *Tortula* in North America north of Mexico. Bryologist 43:12-23, 45-56, 76-86, 98-109. [1-M] *Tortula papillosa* from Illinois (p. 100), no counties listed; no specimen cited.

327. Steere, W.C. 1979. Taxonomy and phytogeography of bryophytes in Boreal and Arctic North America. Chapter 6. Pages 123-157 *in* **G.C.S. Clarke and J.G. Duckett (eds.), Bryophyte Systematics. Academic Press, New York. xii + 582 p.** [2-M] *Ctenidium molluscum* from R-4 and *Pterygoneuron subsessile* from R-3 on dot maps; no specimens cited.

328. Stotler, R.E. 1976. Saxicolous bryophyte and macrolichen associations in southern Illinois. I. Little Grand Canyon, Jackson County. Bryologist 79:1-15. [32-H, 35-M] Annotated checklist with ecological data and frequency measurements, no specimens cited but vouchers at SIU; *Lejeunea lamacerina* ssp. *gemminata*, *Metzgeria conjugata*, *Plagiochila sharpii*, and *Scapania undulata*.

329. Stotler, R.E. 1979. A history of Illinois bryology. Transactions of the Illinois State Academy of Science 72(2):16-27. [A,H,M,S] Biographical sketches of Illinois bryologists; some bryophytes mentioned.

330. Stotler, R.E., and D.H. Vitt. 1972. Additions to the hepatic flora of the Pickle Springs area of southeastern Missouri. Bryologist 75:176-178. [4-H] Annotated checklist based primarily on literature reports of Skorepa (1968); *Cephalozia connivens* (Pope, Interior Highlands), *C. media* (Pope), *Metzgeria conjugata* (Jackson), and *Nowellia curvifolia* (Jackson, Pope) "Continued studies will, no doubt, reveal its presence in many other localities of Illinois . . . ."

331. Stover, E.L. 1930. A mesophytic ravine, "Rocky Branch", a floristic account. Eastern Illinois State Teachers College Bulletin No. 110:1-26. [1-A, 5-H, 7-M, 1-S] *Anthoceros*, *Atrichum*, *Blasia*, *Bryum*, *Climacium*, *Conocephalum*, *Leucobryum*, *Marchantia*, *Mnium*, *Pellia*, *Polytrichum*, *Reboulia*, *Sphagnum*, and *Thuidium* from Clark Co.: no vouchers mentioned.

332. Sullivant, W.S. 1856. The Musci and Hepaticae of the United States east of the Mississippi River. George P. Putnam & Co., New York. 113 p. + 8 pls. [1-M] *Cryphaea inundata* from the Fox and Wabash rivers (White Co.); also reported from the Black River which is located in Posey Co., Indiana, not Illinois (see McKnight #209); also contributed to the second edition of Gray's Manual of Botany.

333. Sullivant, W.S. 1864. Icones Muscorum or figures and descriptions of most of the mosses peculiar to eastern North America which have not been heretofore figured. University Press, Cambridge, Massachusetts. vi + 216 p. + 128 tab. [1-M] *Acaulon schimperianum* from Menard Co., *Hall*.

334. Sullivant, W.S. 1874. Icones Muscorum or figures and descriptions of most of the mosses peculiar to eastern North America which have not yet been figured. Supple-

ment. University Press, Cambridge, Massachusetts. viii + 109 p. + 81 tab. [2-M] *Conomitrium Hallianum* [sic] from Illinois [probably Menard Co.] *Hall*; *Leskea Austini* [sic] from Fulton Co., *Wolf*.

335. Takaki, N. 1972. Geographical distribution of Japanese *Dicranum* species in the Northern Hemisphere. Journal of the Hattori Botanical Laboratory 35:31-40. [3-M] Range maps (p. 35, 38) including all of Illinois for *Dicranum flagellare*, *D. fuscescens*, and *D. viride* var. *viride*; no specimens cited.

336. Tan, B.C. 1978. *Physcomitrella patens* (Musci: Funariaceae) in North America. Bryologist 81:561-567. [1-M] From Fulton Co. *Chase 13133* (CANM, UBC) and Menard Co. *Hall* (MICH); only one population from Illinois on dot map.

337. Taylor, A.M. 1919. Mosses as formers of tufa and floating islands. Bryologist 22:38-39. [1-M] *Brachythecium rivulare* from Will Co.; no specimen cited.

338. Taylor, A.M. 1920. Ecological succession of mosses. Botanical Gazette 69:449-491. [34-M, 1-S] From Carroll (11,0), Cook (24,1), and Will (8,0) cos.; no vouchers mentioned; the Illinois data is intermixed with data from northwestern Indiana; "In the ravines themselves [Cook Co.] the mosses belong almost without exception to the Hypnaceae and are with sporophytes." (p. 472); interesting.

339. Taylor, A.M. 1920. Appearance of mosses in ecological habitats. Bryologist 23:81-84. [75-M, 3-S] Annotated checklist for Cook Co.; table showing ecological habitats for each species; " . . . a great reduction in the number of species in the late oak and climax forests, which appears in marked contrast to the conditions found in many regions."

340. Taylor, A.M. 1921. Occurrence of *Funaria hygrometrica* (L.) Sibth. Bryologist 24:7-8. [1-H, 2-M] From Cook Co. in association with *Marchantia polymorpha* and *Polytrichum commune*; no vouchers mentioned.

341. Thomas, P.E. 1974. Hepaticae of the Interior Highlands, North America. M.A. thesis. Southwest Missouri State University, Springfield. v + 121 p. [3-A, 63-H] Total of 137 species from the Interior Highlands with 66 species from the Ozark Hills (R-5), called Ozark Highlands on Table 1 (p. 2-9), no counties listed; excellent keys, brief habitat descriptions, illustrations, no specimens cited, many vouchers at SMS, some reports from literature; *Frullania kunzei* [?], *Marsupella sullivantii*, *Plagiochila virginica* [?], and *Radula mollis* [?].

342. Thompson, D.N. 1977. A survey of the bryophytes of Bureau County, Illinois. M.S. thesis. Western Illinois University, Macomb. vii + 58 p. [7-H, 75-M] Annotated checklist with specimens cited, vouchers at MWI; includes 4-H and 28-M reported from surrounding counties (La Salle, Lee, Stark); *Herzogiella turfacea*, *Pottia davalliana*, *Tortula muralis*, and *T. ruralis*.

343. Thone, F. 1923. Evaporation rates on rock canyon walls. Botanical Gazette 76:419-424. [2-H, 1-M] *Callicladium haldanianum*, *Conocephalum*, and *Marchantia* from La Salle Co.; no vouchers mentioned.

344. Traylor, E.A. 1977. The bryoecology of Montgomery County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. vii + 149 p. [2-H, 34-M] Vouchers in author's collection and at EIU [?].

345. True, R.N. 1899. Geographical distribution of *Dicranum*. Bryologist 2:25-27. [3-M] *D. Bonjeani* [sic], *D. scoparium*, and *D. undulatum* from Illinois, no counties listed; no specimens cited.

346. Tucker, L.T. 1970. Bryophyte flora of Cass County. M.S. thesis. Western Illinois University, Macomb. vi + 58 p. [1-A, 4-H, 67-M] Annotated checklist, no specimens cited but vouchers at MWI: *Campylium stellatum*, *Harpanthus scutatus*, and *Pylaisiella intricata*.

347. Ullrick, F.T. 1915. The relation of evaporation and soil moisture to plant succession in a ravine. Bulletin of the Illinois State Laboratory of Natural History 12:1-16 + 18 pls. [3-M] *Atrichum undulatum*, *Mnium*, and *Polytrichum commune* from Cook Co.: no vouchers mentioned.

348. Underwood, L.M. 1882. North American Hepaticae. Botanical Gazette 7:18-21. [H] " . . . Illinois has been more or less carefully examined . . . forty-five [species] from Illinois, yet . . . only a few counties have been carefully examined.": no taxa listed from Illinois.

349. Underwood, L.M. 1884. Descriptive catalogue of the North American Hepaticae, north of Mexico. Bulletin of the Illinois State Laboratory of Natural History 2:1-133. [3-A, 44-H] Checklist for unspecified Illinois locations (p. 116-119); no specimens cited; *Jungermannia Sullivantiae* [sic], *Lophocolea Hallii* [sic], and *Riccia crystallina* are noted in text.

350. Underwood, L.M. 1890. Cellular acrogens, or bryophytes. Pages 702-732 + pls. 22-25 *in* A. Gray (ed.), Manual of the botany of the northern United States, including the district east of the Mississippi and north of North Carolina and Tennessee. Ivison, Blackman, and Co., New York. 760 p. + 25 pls. [7-H] *Cephaloziella sullivantii*, *Lophocolea Hallii* [sic], *Odontoschisma sphagni*, *Riccia crystallina*, *R. frostii*, *R. lescuriana*, and *R. sorocarpa* from Illinois, no counties listed; no specimens cited.

351. Underwood, L.M. 1894. Notes on our Hepaticae. II. Botanical Gazette 19:273-278. [6-H] *Riccia crystallina*, *R. frostii*, *R. frostii* var. *major*, *R. lescuriana*, *R. lutescens*, and *R. minima* from Illinois, no counties listed; no specimens cited.

352. Underwood, L.M. 1895. Notes on our Hepaticae. II. The distribution of North American Marchantiaceae. Botanical Gazette 20:59-71. [5-H] *Asterella tenella*, *Conocephalum conicum*, *Grimaldia fragrans*, *Marchantia polymorpha*, and *Reboulia hemisphaerica* from Illinois, no counties listed; no specimens cited.

353. Underwood, L.M. 1896. The genus *Cephalozia* in North America. Bulletin of the Torrey Botanical Club 23:381-394. [1-H] *C. sullivantiae* from Illinois; no specimen cited, "Austin also reported it from Illinois, but I have seen no specimens." (p. 387).

354. Vasey, G. 1859. Mosses of Illinois. Transactions of the Illinois State Agricultural Society 3:676-679. [1-H, 44-M] Annotated checklist for McHenry Co.; no specimens cited, vouchers incorporated at ILL from ILLS.

355. Vaughn, R.H. 1940. Moultrie County mosses. Transactions of the Illinois State Academy of Science 33:73. [50-M] Checklist with vouchers in author's collection and at ILL; no specimens cited.

356. Vaughn, R.H. 1941. Bryophytes of Rocky Branch region of Clark County, Illinois. Transactions of the Illinois State Academy of Science 34:96-97. [1-A, 13-H, 71-M, 1-S] Checklist, no specimens cited, vouchers at ABSH, ILL, and MICH.

357. Vierling, P.E. 1976. Starved Rock trails. A hiker's guide to the trails, geology, and botany of Starved Rock State Park, Illinois. Guidebook No. 3. Illinois Country Guides. Chicago. 104 p. [1-A, 6-H, 1-M] *Anthoceros*, *Blasia*, *Conocephalum*, *Marchantia*, *Pellia*, *Polytrichum commune*, *Reboulia*, and *Scapania* from La Salle Co. (p. 100,101); no vouchers mentioned.

358. Vitt, D.H. 1972. A monograph of the genus *Drummondia*. Canadian Journal of Botany 50:1191-1208. [1-M] *D. prorepens* from Clark Co., *Vaughn 110* (MICH). (p. 1197): Fig. 34, world distribution of genus includes all of Illinois (p. 1205).

359. Vitt, D.H. 1973. A revision of the genus *Orthotrichum* in North America, north of Mexico. Bryophytorum Bibliotheca Vol. 1. J. Cramer, Vaduz, West Germany. 298 p. + 60 pls. [6-M] *O. anomalum* (Cook), *O. ohioense* (Rock Island), *O. pumilum* (La Salle, R-3), *O. pusillum* (Johnson, R-5), *O. stellatum* (Winnebago), and *O. strangulatum* (Menard, R-2); specimens cited; dot maps.

360. Vitt, D.H., and P. Lee. 1984. *Anomodon minor* (Musci: Leskeaceae) in North America. Bryologist 87:338-339. [1-M] Dot map with eight locations in Illinois; no specimens cited.

361. Wade, D.R., and D.E. Wade. 1971. Plants of the Pine Rock Nature Preserve and some fauna lists. Pine Rock Nature Preserve Occasional Papers No. 1. Department of Outdoor Teacher Education, Lorado Taft Field Campus, Oregon, Illinois. x + 16 p. + 5 appendices. [1-M, 1-S] *Polytrichum commune* and *Sphagnum* from Ogle Co.; no vouchers mentioned.

362. Walker, J.K. 1964. Synopsis of the genera of mosses (Musci) in southern Illinois. M.A. thesis. Southern Illinois University, Carbondale. vii + 87 p. [152-M, 1-S] Descriptions and keys for 65 genera with list of species recorded from southern Illinois, 16 southernmost counties, but no specific counties given or vouchers mentioned; *Brachythecium albicans*, *Buxbaumia aphylla*, *Dicranum viride*, *Grimmia trichophylla*, and *Orthotrichum affine*; the basis for reports, especially several rare taxa, is suspect.

363. Wareham, R.T. 1939. The moss genera *Pottia* and *Pterigoneurum* in North America north of Mexico. Ph.D. dissertation. The Ohio State University, Columbus. 77 p. [4-M] One specimen [of *Pottia truncata*] from Chicago [Cook Co.] reported by Flowers (1930) is *Physcomitrium turbinatum*; Grout's *197* [*Pottia randii*] was collected by Flowers (1930) on soil in shade, Washington Park, Chicago (also on dot map); *Pterigoneuron subsessile* "east to Illinois," on dot map from central Illinois (R-3); *Pottia truncata* on dot map (misidentified); p. 18,30,48,59,61,64.

364. Wascher, H. 1934. Plant composition of Illinois peat bogs. M.S. thesis. University of Illinois, Urbana-Champaign. 24 p. [3-M, 1-S] *Hypnum*, *Polytrichum* (2 spp.), and *Sphagnum* from Bureau, Henry, Lake, Mason, McHenry, Rock Island, and/or Whiteside cos.; unclear about source of material; no vouchers mentioned.

365. Waterman, W.G. 1921. Preliminary report on the bogs of northern Illinois. Transactions of the Illinois State Academy of Science 14:79-84. [1-S] *Sphagnum* from Lake Co.

366. Waterman, W.G. 1923. Bogs of northern Illinois. II. Transactions of the Illinois State Academy of Science 16:214-225. [2-M, 1-S] *Leucobryum*, *Polytrichum*, and *Sphagnum* from Lake Co.; no vouchers mentioned.

367. Waterman, W.G. 1926. Ecological problems from the *Sphagnum* bogs of Illinois. Ecology 7:255-272. [1-H, 1-M, 1-S] *Marchantia*, *Mnium*, and *Sphagnum* from Lake Co.; no vouchers mentioned.

368. Weber, W.R. 1959. A flora of Piney Creek ravine. M.S. thesis. Southern Illinois University, Carbondale. vi + 105 p. [1-H, 1-S] *Cephaloziella elachistata* and *Sphagnum capillaceum* from Randolph Co. (p. 14,15,88); reprinted, with some omissions, in Weber (1970).

369. Weber, W.R. 1970. A flora of Piney Creek ravine. Transactions of the Illinois State Academy of Science 63:18-33. [1-H, 1-S] *Cephaloziella subdentata* and *Sphagnum capillaceum* from Randolph Co. (p. 30,32); vouchers at SIU, but no specimens cited.

370. Welch, W.H. 1960. A monograph of the Fontinalaceae. Martinus Nijhoff, The Hague, Netherlands. 357 p. [6-M] *Brachylema subulatum* (Fox & Wabash rivers by von Wied in 1832, Welch also reported this species from the Black River which is located in Posey Co., Indiana, not Illinois; (see also McKnight #209); *Fontinalis biformis* (Fulton), *F. filiformis* (Fulton, Wabash), *F. hypnoides* (Fulton, Marion), *F. missourica* (Cook, Jackson, Will), and *F. novae-angliae* (Jackson, Peoria, Pope, Pulaski); specimens cited.

371. Welch, W.H. 1962. The Hookeriaceae of the United States and Canada. Bryologist 65:1-24. [1-M] *Hookeria acutifolia* from Clark Co., *Vaughn 99* (MICH).

372. West, V., and R.E. Stotler. 1977. Saxicolous bryophyte and macrolichen associations in southern Illinois. II. Panther's Den, Union County. Bryologist 80:612-618. [21-H, 19-M] Ecological data and frequency measurements; *Bazzania tricrenata*, *Herzogiella striatella*, and *Leucolejeunea unciloba*; no specimens cited.

373. White, J., and M.H. Madamy. 1978. Classification of natural communities in Illinois. Appendix 30. Pages 309-405 *in* **J. White (ed.), Illinois Natural Areas Inventory Technical Report. Vol. 1. Survey Methods and Results. Illinois Natural Areas Inventory, Urbana. 426 p.** [3-M, 2-S] *Dicranum scoparium*, *Leucobryum glaucum*, *Polytrichum commune*, *Sphagnum recurvum*, and *Sphagnum* spp. from Illinois; no counties listed; no vouchers mentioned; p. 323,342.

374. Wiedman, J.E. 1971. The lichen flora of Rocky Branch Nature Preserve, Clark County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. iii + 109 p. [9-H, 17-M, 3-S] Notes and annotated checklist; *Porella pinnata* [?], *Sphagnum palustre*, *S. squarrosum*, and *S. tenerum*; no mention of vouchers.

375. Wiedman, J.E., and W. Whiteside. 1975. The lichen flora of Rocky Branch Nature Preserve Clark County, Illinois. Transactions of the Illinois State Academy of Science 68:102-117. [4-H, 14-M, 3-S] Notes and annotated checklist; reprint, with some omissions, of Wiedman (1971).

376. Wilcut, J.W. 1981. Moss sensitivity to sulphur dioxide. M.S. thesis. Eastern Illinois University, Charleston. x + 123 p. [4-M] *Aulacomnium heterostichum*, *Bartramia pomiformis*, *Leucobryum glaucum*, and *Polytrichum ohioense* from Illinois (R-4), vague dot maps; no mention of vouchers.

377. Williams, H. 1959. *Pterigoneuron ovatum* in Ontario. Bryologist 62:156-158. [1-M] *P. subsessile* collected in Illinois, according to Wareham (l.c.); no specimen cited.

378. Williams, R.A. 1980. A taxonomic and ecological study of the lichens in "Rocks Parks" in Coles County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. iv + 24 p. [2-M] *Atrichum angustatum* and *Dicranum scoparium*; no specimens cited.

379. Williams, R.S. 1919. The genus *Desmatodon* in North America. Bulletin of the Torrey Botanical Club 46:207-220. [1-M] *D. porteri* from Illinois, no county listed; no specimen cited.

380. Winterringer, G.S. 1949. Rock-ledge vegetation in southern Illinois. Ph.D. dissertation. University of Illinois, Urbana-Champaign. vi + 174 p. [1-H, 13-M] Annotated checklist from R-5 (p. 117-120) with some specimens cited; reprinted in Winterringer & Vestal (1956).

381. Winterringer, G.S., and A.G. Lopinot. 1977. Aquatic plants of Illinois. Illinois State Museum Popular Series 6:1-142. [2-H] *Riccia fluitans* and *Ricciocarpos natans* from unspecified Illinois locations (p. 26); no specimens cited.

382. Winterringer, G.S., and A.G. Vestal. 1956. Rock-ledge vegetation in southern Illinois. Ecological Monographs 26:105-130. [10-M] From R-5; reprinted from Winterringer (1949), with *Atrichum angustatum*, *Drummondia prorepens*, *Reboulia*, and *Weissia viridula* omitted.

383. Wolf, J., and E. Hall. 1878. A list of the mosses, liverworts

and lichens of Illinois. Bulletin of the Illinois State Laboratory of Natural History 1:18-35. [4-A, 44-H, 168-M] Checklist from R-5 (0,1,10), Fulton (4,31,118), Johnson (0,8,5), Kane (0,0,3), Lee (0,0,1), Marion (0,0,1), Mason (0,0,1), McHenry (0,0,1), Menard (2,25,126), Ogle (0,0,1), Peoria (0,0,1), Pulaski (0,0,1), and Union (1,5,3) cos., as well as some from unspecified Illinois locations, no specimens cited; includes numerous questionable reports (see McKnight #207).

384. Wunderlin, R.P. 1967. A preliminary annotated checklist of the moss flora of Carroll County, Illinois. Transactions of the Illinois State Academy of Science 60:433-435. [49-M] Compiled primarily from the literature; *Rhytidium rugosum*.

385. Wynne, F.E. 1942. A revision of the North American species of *Drepanocladus*. Ph.D. dissertation. University of Michigan, Ann Arbor. [i] + 231 p. + 10 pl. + 13 maps. [1-M] "In eastern North America the boreal-montane species of *Drepanocladus* occur from the arctic southward to . . . Illinois."; map 9, *D. aduncus* var. *typicus* two locations on dot map in northeastern Illinois [Lake and approximately De Kalb cos.]; "on grassy tussocks in cold springy bog, Peoria [Tazewell Co.], Aug. 1906 *F.E. McDonald* (DUKE), Deer Lodge, 1888 *Ro*(8)(14)A(15)*ll* (NY), very wet ground, Palos Park [Cook Co.], *A.M. Taylor 109* (NY); p. 15 and 98.

386. Wynne, F.E. 1944. Studies in *Drepanocladus* II. Taxonomy. Bryologist 47:147-189. [1-M] *D. aduncus* var. *typicus* from R-2 (p. 256) two locations on dot map; exsiccati (p. 155) IL N.A.M.Pl. 289 (MICH, NY).

387. Zales, W.M. 1967. Studies of the capsule wall of selected Musci from Coles County. M.S. thesis. Eastern Illinois University, Charleston. viii + 72 p. [50-M] *Tortula mucronifolia* and *Brotherella recurvans*; vouchers in author's collection but no specimens cited, some material from Tennessee and Wisconsin but not specified; black and white photomicrographs.

388. Zales, W.M. 1971. Bryophytes of Goose Lake Prairie, Illinois. Transactions of the Illinois State Academy of Science 64:222-224. [1-A, 6-H, 22-M, 1-S] Annotated checklist from Grundy Co.; specimens cited, vouchers at EIU.

389. Zales, W.M. 1973. A taxonomic revision of the genus *Philonotis* for North America north of Mexico. Ph.D. dissertation. University of British Columbia, Vancouver. vi + 166 p. [2-M] *P. fontana* var. *fontana* (Johnson, La Salle, Pope) and *P. marchica* (Lake, Menard); specimens cited

390. Zander, R. 1967. The New World distribution of *Scopelophila* (=*Merceya*). Bryologist 70:405-413. [1-M] *S. ligulata* from La Salle Co., from Jones (1961).

391. Zehr, D.R. 1976. An autecological investigation of selected bryophytes in three sandstone canyons in southern Illinois. M.S. thesis. Southern Illinois University, Carbondale. iii + 106 p. [3-H, 2-M] From R-5 and Jackson, Union, and Williamson cos.; no specimens cited; in-depth physiographic measurements; *Atrichum angustatum*, *Diphyscium foliosum*, *Lophocolea heterophylla*, *Nowellia curvifolia*, and *Trichocolea tomentella*; reprinted in Zehr (1977).

392. Zehr, D.R. 1977. An autecological investigation of selected bryophytes in three sandstone canyons in southern Illinois. Bryologist 80:571-583. [3-H, 2-M] Reprint, with omissions, of Zehr (1976).

393. Zehr, D.R. 1979. Phenology of selected bryophytes in southern Illinois. Bryologist 82:29-36. [3-H, 2-M] From R-5 and Jackson, Union, and Williamson cos.; no specimens cited.

394. Zehr, D.R. 1980. An assessment of variation in *Scapania nemorosa* and selected related species (Hepatophyta). Ph.D. dissertation. Southern Illinois University, Carbondale. [vii] + 140 p. [2-H] *S. nemorosa* (Fayette, Gallatin, Jackson, Johnson, La Salle, Pope, Saline) and *S. undulata* (La Salle, Saline); investigations of chromosomes, developmental morphology, isozymes, phenolics, terpenes; specimens cited; reprinted in Zehr (1980).

395. Zehr, D.R. 1980. An assessment of variation in *Scapania nemorosa* and selected related species (Hepatophyta). Bryophytorum Bibliotheca Vol. 15. J. Cramer, Vaduz, West Germany. xiv + 140 p. [2-H] Reprint, with omissions, of Zehr's (1980) dissertation.

396. Zehr, D.R., and R. Stotler. 1980. Liverworts and hornworts of Ferne Clyffe State Park, Johnson County, Illinois. Transactions of the Illinois State Academy of Science 73(4):41-44. [2-A, 38-H] Annotated checklist for Johnson Co. with specimens cited; *Lejeunea lamacerina* subsp. *gemminata*.

INDICES

The numbers following each division correspond to the numerical acronym preceeding each publication listed in the bibliography.

I. AUTHORS (250).

Alexander, C. — 273
Ammons, N. — 1
Anderson, L.E. — 2, 3, 81, 87, 88, 89, 90, 297
Anderson, R.C. — 4
Ando, H. — 5
Andrews, A.L. — 6, 7, 134
Andrus, R.E. — 8, 9, 10, 11, 12, 72
Anonymous — 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26
Armstrong, P.K. — 27, 28
Artist, R.C. — 29, 30
Arzeni, C.B. — 31, 32, 33, 34, 35, 184, 211, 272, 321
Atwell, R.S. — 36
Austin, C.F. — 37, 38, 39
Barkley, E.E. — 40, 41
Barnes, C.R. — 42, 43
Barrick, S.H. (S.A. Holmes) — 48, 143
Bazzaz, F.A.[L.] — 239
Best, G.N. — 44
Blair, M.C. — 45, 46, 47
Boewe, G.H. — 48
Bowers, F.D. — 72
Bowers, M.C. — 49
Brassard, G.R. — 50
Breen, D.A. — 51
Brendel F. — 52, 53, 54, 55
Britton, E.G. [K.] — 56, 57, 58, 59, 60
Burnette, D.C. — 61
Cain, S.A. — 135
Calkins, W.W. — 62
Cardot, J. — 63, 64, 65, 66
Carothers, Z.B. — 67, 228
Carvey, K. — 68
Chamberlin, M.A. — 69
Cheney, L.S. — 70
Chimney, M.J. — 71
Christy, J.A. — 72
Clapp, G.L. — 73
Clark, L. — 120
Clute, W.N. — 74
Conard, H.S. — 75, 76
Cowles, H.C. — 77, 78
Craig, E.J. — 135
Crandall-Stotler, B.J. — 79, 80
Crosby, M.R. — 81
Crotz, D.K. — 82
Crum, H.A. — 83, 84, 85, 86, 87, 88, 89, 90, 282
Darlington, H.T. — 91
Davidonis, G.H. — 92
Davis, B.M. — 93
Dibben, M.J. — 72
DiMichele, W.A. — 94
Downing, E.R. — 95
Doyle, W.T. — 261
Drexler, R.V. — 142
Duckett, J.G. — 67, 228
Duerr, J.J. — 96
Dupler, A.W. — 97
Dybas, H.S. — 98
Emerson, F.W. — 99
Emmitt, R.W. — 100
Evans, A.W. — 101, 102, 103, 104, 105, 106
Evers, R.A. — 107, 108, 109, 110, 111, 112
Farrar, D.R — 68
Fell, E.W — 113, 114
Fell, G.B. — 114
Fife, A.J. — 115
Flowers, S. — 116, 117, 134, 135
Freeman, G.W. — 118, 234
Fritsch, R. — 119
Frye, T.C. — 120, 135
Fuller, G.D. — 121
Galligar, G.C. — 122
Garber, E.D. — 201, 214
Garber, J.F. — 123
Gatchell, S.L. — 124
Gates, F.C. — 125
Gleason, H.A. — 126, 127
Glenn-Lewin, D.C. — 68
Grant, F.R. — 128
Grolle, R. — 129
Grout, A.J. — 130, 131, 132, 133, 134, 135, 136, 137
Grunwald, C. — 138
Hague, S.M. — 48, 128, 139, 140, 141, 142, 143
Hall, E. — 383
Haney, A. — 303
Haring, I.M. — 135
Hatcher, R.E. — 144, 145, 146, 147
Hattori, S. — 148
Haupt, A.W. — 149
Henderson, L.B. — 150
Hervey, A.B. — 252
Hill, E.J. — 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161
Hoff, C.C. — 111
Holferty, G.M. — 162
Holmes, S.A. (S.M. Barrick) — 48, 143
Holzinger, J.M. — 163
Homoya, M.A. — 164
Hopkins, C.E.O. (C.E. Ott) — 165, 238
Horton, D.G. — 166, 167
Howe, M.A. — 168
Huett, J.W. — 169
Husa, J.G. — 170
Inoue, S. — 232
Ireland, R.R. — 171, 172, 173, 174, 175, 176
Isenbarger, J. — 177
Ives, J.D. — 235, 305
Jackson, S.T. — 178, 179
James, T.P. — 180, 196, 197
Jansen, D.B.F. — 181
Janssens, J.A.P. — 182
Jennings, O.E. — 183
Jester, J. — 184
Jones, G.N. — 134, 185
Keim, L.L. — 186
Kibbe, A.L. — 187, 188
Klopmeyer, M.J. — 189
Koelling, A.C. — 267
Kopenen, T.[J.] — 190, 191, 192
Kurz, H. — 193
Lawton, E. — 194
Lazarenko, A.S. — 195
Lee, Peter — 360
Lesquereux, C.L. — 196, 197
Lewinsky, J. — 198
Ley, L.M. — 175
Lippincott, B.B. — 323, 324
Lippincott, J.A. — 323, 324
Lopinot, A.C. — 199, 381

Madamy, M.H. — 373
Manuel, M.G. — 200
Maravolo, N.C. — 201
Martin, S.M. — 202
Matten, L.C. — 203
McBroom, R.L. — 204
McClain, W.E. — 267
McCleary, J.A. — 205
McGee, W.J. — 206
McKnight, B.N. — 34, 207, 208, 209, 210, 211
Meyer, S.L. — 212
Miller, M.W. — 213, 214
Miller, N.G. — 176, 179, 215, 216, 217, 218
Mohlenbrock, R.H. — 219, 220, 221, 222
Mohr, C. — 223
Montgomery, C.R. — 224, 225
Morrow, J.S. — 226
Moser, J.W. — 67, 227, 228
Munroe, M.H. — 92
Neal, E.E. — 229
Nees von Esenbeck, C.G.D. — 230
Nelson, N.L.T. — 231
Nichols, G.E. — 106
Nishimura, N. — 232
O'Flaherty, L.M. — 233, 234, 235
O'Hanlon, M.E. — 236, 237
Ott, C.E. (C.E.O. Hopkins) — 165, 238
Ozimek, A.R. — 235
Page, L.M. — 112
Paolillo, D.J., Jr. — 239
Papp, C. — 240
Parker, A. — 241
Patterson, H.N. — 242
Penny, N.D. — 243, 244
Pepoon, H.S. — 245, 246
Peterson, W. — 247
Pfeiffer, N.E. — 248
Phillips, T.L. — 94
Proskauer, J.M. — 249
Pursell, R.A. — 250
Rastorfer, J.R. — 251
Rau, E.A. — 252
Redfearn, P.L., Jr. — 76, 205, 253, 254, 255, 256, 257
Reese, W.D. — 258
Reichle, D.E. — 259, 260, 261
Renzaglia, K.S. — 79, 262, 263, 264, 265
Richards, D. — 266
Robertson, K.R. — 267
Robinson, H. — 268
Röll, J. — 269
Rohde, C.J., Jr. — 270
Royse, D.J. — 35, 271, 272
Rubin, M. — 273
Rushing, A.E. — 274, 275
Sayre, G. — 134
Schertler, M.M. — 276, 277
Schiller, C.T. — 278
Schnooberger, I. — 279
Schofield, W.B. — 280, 281, 282
Schuster, R.M. — 217, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293
Schwegman, J.E. — 294, 295
Sharp, A.J. — 133, 135, 296, 297
Sharp, L.W. — 298
Shaw, A.J. — 299, 300, 301, 302
Sheviak, C.J. — 303
Sholl, R.D. — 304, 305
Short, C.W. — 306
Simon, T.M. — 307
Skorepa, A.C. — 308, 309, 310
Smith, A.J. — 311
Smith, D.K. — 312
Smith, G.L. — 313, 314
Snider, J.A. — 310, 315, 316, 317, 318
Spessard, L.L. — 319, 320, 321
Spiess, L.D. — 322, 323, 324
Steere, W.C. — 134, 135, 325, 326, 327
Stotler, R.E. — 80, 328, 329, 330, 372, 396
Stover, E.L. — 331
Sullivant, W.S. — 332, 333, 334
Szafoni, D.B. — 138
Takaki, N. — 335
Tan, B.C. — 336
Taylor, A.M. — 337, 338, 339, 340
Thériot, I. — 63, 64, 65, 66
Thomas, P.E. — 341
Thompson, D.N. — 342
Thone, F. — 343
Traylor, E.A. — 344
True, R.H. — 345
Tucker, L.T. — 346
Ullrick, F.T. — 347
Underwood, L.M. — 348, 349, 350, 351, 352, 353
Vasey, G. — 354
Vaughn, R.H. — 355, 356
Vestal, A.G. — 382
Vierling, P.E. — 357
Vitt, D.H. — 167, 330, 358, 359, 360
Voigt, J.W. — 222
Voth, P.D. — 201, 214
Wade, D.E. — 361
Wade, D.R. — 361
Walker, J.K. — 362
Wareham, R.T. — 135, 363
Wascher, H. — 364
Waterman, W.G. — 365, 366, 367
Weber, W.R. — 368, 369
Welch, W.H. — 133, 370, 371
West, V. — 372
White, J. — 373
Whiteside, W.C. — 375
Wiedman, J.E. — 374, 375
Wilcut, J.W. — 376
Williams, H. — 377
Williams, R.A. — 378
Williams, R.S. — 379
Winterringer, G.S. — 380, 381, 382
Wolf, J. — 383
Wunderlin, R.P. — 384
Wynne, E.E.[H.] — 385, 386
Zales, W.M. — 387, 388, 389
Zander, R.H. — 3, 390
Zehr, D.R. — 391, 392, 393, 394, 395, 396

II. CHRONOLOGICAL INDEX.

1834 — 230
1845 — 306
1856 — 332
1859 — 52, 354
1864 — 180, 333
1869 — 37
1872 — 38
1874 — 242, 334
1878 — 383
1879 — 196, 252

1880 — 39
1882 — 53, 54, 348
1884 — 197, 348
1886 — 151
1887 — 42, 55
1890 — 350
1891 — 206
1893 — 269
1894 — 56, 57, 58, 351
1895 — 59, 352
1896 — 130, 353
1897 — 43, 70, 131, 168
1898 — 44, 132, 169
1899 — 345
1900 — 63
1901 — 64, 77, 93, 223
1902 — 152
1903 — 126, 153
1904 — 13, 65, 123, 162
1905 — 14, 66, 154, 163
1906 — 101
1907 — 15, 155
1908 — 16, 106
1909 — 17, 18, 19, 20, 21, 156, 245
1910 — 22, 23, 62, 102, 127, 157
1911 — 24, 231
1912 — 73, 103, 125, 158
1913 — 6, 60
1914 — 36, 104, 159, 248
1915 — 160, 347
1916 — 161
1917 — 105, 121
1918 — 25, 45, 78
1919 — 26, 337, 379
1920 — 298, 338, 339
1921 — 99, 149, 340, 365
1922 — 46, 97
1923 — 343, 366
1924 — 95
1926 — 47, 367
1927 — 246
1928 — 133, 193, 236
1929 — 150
1930 — 116, 139, 224, 237, 331
1931 — 128, 133, 225
1932 — 74, 133
1933 — 134, 143, 240, 325
1934 — 29, 122, 133, 134, 140, 177, 364
1935 — 48, 134
1936 — 30, 135
1937 — 120, 135, 141
1938 — 135, 142
1939 — 135, 296, 363
1940 — 1, 40, 134, 266, 326, 355
1941 — 41, 212, 356
1942 — 279, 385
1943 — 2, 120, 136
1944 — 386
1945 — 120
1946 — 111, 120, 137
1947 — 31, 120
1949 — 380
1950 — 100
1951 — 183
1952 — 107, 144, 187, 226
1953 — 188, 283
1955 — 87, 108, 270
1956 — 83, 88, 170, 382
1957 — 113, 114, 145, 249, 250, 284
1958 — 84, 273, 285, 286
1959 — 7, 75, 222, 287, 368, 377
1960 — 288, 370
1961 — 109, 185
1962 — 213, 214, 268, 371
1964 — 91, 110, 259, 311, 362
1965 — 89, 146, 199, 261
1966 — 49, 171, 253, 289
1967 — 81, 96, 147, 186, 201, 310, 384, 387, 390
1968 — 129, 219, 220, 238, 239, 254, 308
1969 — 165, 172, 173, 229, 260, 290, 294, 313
1970 — 4, 227, 304, 315, 346, 369
1971 — 190, 194, 203, 324, 361, 374, 388
1972 — 5, 92, 148, 191, 255, 280, 282, 319, 330, 335, 358
1973 — 3, 117, 184, 192, 200, 303, 305, 309, 316, 359, 389
1974 — 8, 118, 195, 198, 243, 271, 291, 341
1975 — 35, 235, 272, 317, 320, 321, 375
1976 — 34, 94, 167, 276, 278, 322, 328, 357, 391
1977 — 32, 67, 68, 82, 112, 164, 202, 204, 228, 244, 247, 262, 292, 307, 314, 342, 344, 372, 381, 392
1978 — 80, 98, 124, 178, 233, 263, 336, 373
1979 — 9, 10, 76, 115, 181, 205, 215, 234, 277, 327, 329, 393
1980 — 11, 12, 33, 69, 216, 281, 293, 312, 378, 394, 395, 396
1981 — 27, 61, 90, 189, 251, 264, 297, 299, 300, 323, 376
1982 — 119, 174, 176, 207, 221, 265, 274, 301, 318
1983 — 28, 85, 138, 166, 179, 182, 256, 257, 267, 302
1984 — 50, 71, 79, 86, 175, 217, 258, 360
1985 — 51, 208, 218, 232, 241
1986 — 72, 209, 210, 275, 295
[In Prep.] — 211

III. COUNTIES

(The number in parentheses following each county is a numerical acronym that corresponds with Figure 1).

ADAMS (50) — 61, 111, 139, 190, 205
ALEXANDER (100) — 61, 205, 256, 257
BOND (70) — 61, 205
BOONE (4) — 61, 205
BROWN (49) — 61, 111, 205
BUREAU (18) — 61, 90, 138, 205, 342, 364

CALHOUN (67) — 61, 205

CARROLL (13) — 48, 61, 97, 139, 141, 142, 205, 319, 338, 384

CASS (47) — 61, 205, 346

CHAMPAIGN (42) — 61, 120, 139, 141, 142, 205, 208, 209, 239, 275, 289, 290, 293, 319

CHRISTIAN (55) — 61, 205, 319

CLARK (60) — 31, 35, 61, 110, 112, 124, 171, 173, 189, 190, 192, 202, 204, 205, 207, 208, 211, 235, 250, 271, 275, 278, 290, 291, 307, 308, 315, 319, 331, 356, 358, 371, 374, 375

CLAY (77) — 61, 205

CLINTON (79) — 61, 205

COLES (61) — 31, 51, 61, 83, 124, 143, 184, 189, 202, 204, 205, 232, 271, 278, 291, 307, 308, 319, 378, 387

COOK (7) — 2, 10, 11, 16, 17, 18, 19, 20, 21, 36, 43, 61, 62, 66, 73, 77, 99, 116, 120, 121, 123, 132, 133, 135, 139, 141, 149, 151, 155, 156, 157, 162, 163, 171, 173, 177, 190, 195, 205, 208, 210, 216, 236, 237, 246, 248, 259, 269, 275, 298, 312, 315, 316, 317, 319, 323, 324, 338, 339, 340, 347, 359, 363, 370, 385

CRAWFORD (74) — 61, 143, 205

CUMBERLAND (62) — 61, 205, 271, 311

DE KALB (10) — 61, 141, 170, 205, 385

DE WITT (44) — 61, 205

DOUGLAS (58) — 61, 205

DU PAGE (8) — 28, 61, 83, 120, 139, 141, 153, 205, 293

EDGAR (59) — 61, 205

EDWARDS (87) — 61, 205

EFFINGHAM (72) — 61, 205, 319

FAYETTE (71) — 61, 205, 391, 394

FORD (26) — 61, 205

FRANKLIN (91) — 61, 205, 253, 256, 257

FULTON (37) — 39, 42, 55, 61, 83, 134, 139, 141, 171, 175, 181, 188, 196, 197, 205, 208, 275, 290, 293, 315, 319, 334, 336, 370, 383

GALLATIN (95) — 61, 82, 165, 205, 210, 238, 241, 256, 257, 258, 263, 308, 319, 394, 395

GREENE (66) — 61, 205

GRUNDY (22) — 61, 94, 138, 205, 251, 315, 388

HAMILTON (90) — 61, 205, 257

HANCOCK (35) — 61, 90, 118, 139, 176, 187, 190, 205, 234, 319

HARDIN (96) — 61, 120, 140, 142, 165, 205, 238, 256, 257, 308, 319

HENDERSON (34) — 61, 115, 127, 139, 141, 188, 205, 242, 319

HENRY (17) — 61, 139, 205, 319, 364

IROQUOIS (25) — 61, 205

JACKSON (92) — 61, 80, 109, 112, 144, 145, 146, 147, 173, 178, 179, 205, 208, 217, 253, 254, 256, 257, 262, 263, 276, 277, 287, 289, 290, 291, 293, 308, 315, 319, 328, 330, 370, 391, 392, 393, 394

JASPER (73) — 61, 205

JEFFERSON (85) — 61, 112, 205, 362

JERSEY (68) — 61, 142, 205

JO DAVIESS (1) — 45, 46, 47, 48, 61, 141, 142, 205, 208, 210, 245, 295

JOHNSON (98) — 4, 61, 67, 90, 139, 140, 141, 142, 205, 210, 227, 228, 253, 256, 257, 258, 308, 315, 319, 359, 383, 389, 394, 395, 396

KANE (9) — 61, 96, 139, 205, 311, 383

KANKAKEE (24) — 61, 139, 141, 205, 315, 319

KENDALL (21) — 61, 205, 315

KNOX (32) — 61, 71, 141, 205, 319

LAKE (6) — 10, 29, 30, 51, 61, 98, 99, 112, 125, 139, 141, 142, 157, 158, 159, 177, 190, 193, 205, 208, 233, 235, 259, 260, 261, 269, 303, 315, 319, 322, 364, 365, 366, 367, 385, 389

LA SALLE (20) — 27, 55, 57, 61, 77, 78, 93, 95, 120, 121, 138, 139, 141, 142, 152, 162, 169, 185, 190, 205, 206, 266, 270, 287, 293, 299, 300, 315, 319, 342, 343, 357, 359, 389, 390, 394, 395

LAWRENCE (75) — 61, 205

LEE (12) — 61, 205, 342, 383

LIVINGSTON (27) — 61, 205

LOGAN (45) — 61, 205

MACON (56) — 61, 122, 141, 205, 319

MACOUPIN (65) — 61, 205, 267, 275, 296

MADISON (69) — 61, 205, 231

MARION (78) — 61, 139, 141, 142, 205, 319, 370, 383

MARSHALL (28) — 61, 205

MASSAC (102) — 61, 205, 256, 257, 315

MASON (38) — 61, 139, 205, 364, 383

McDONOUGH (36) — 61, 68, 205, 226, 229, 235, 304, 305, 319

McHENRY (5) — 58, 61, 139, 205, 208, 210, 216, 259, 274, 275, 315, 319, 354, 364, 383

McLEAN (40) — 61, 139, 142, 205, 273, 319

MENARD (46) — 42, 61, 89, 130, 131, 133, 135, 136, 139, 141, 171, 188, 190, 197, 205, 208, 275, 316, 317, 319, 333, 334, 336, 359, 383, 389

MERCER (16) — 61, 186, 205

MONROE (81) — 61, 205

MONTGOMERY (64) — 61, 205, 290, 344

MORGAN (53) — 61, 205

MOULTRIE (57) — 61, 205, 355

OGLE (11) — 48, 61, 92, 139, 141, 142, 145, 150, 201, 205, 213, 214, 224, 225, 319, 325, 361, 383

PEORIA (31) — 52, 53, 54, 55, 61, 120, 139, 141, 142, 172, 205, 319, 370, 383

PERRY (84) — 61, 205, 257, 362

PIATT (43) — 61, 205

PIKE (51) — 61, 205

POPE (97) — 34, 61, 80, 109, 112, 140, 142, 144, 146, 164, 165, 171, 173, 205, 208, 219, 221, 222, 238, 253, 254, 256, 257, 294, 308, 309, 310, 315, 319, 330, 370, 389, 394, 395

PULASKI (101) — 61, 139, 205, 256, 257, 275, 370, 383

PUTNAM (19) — 61, 138, 190, 205

RANDOLPH (82) — 61, 139, 146, 164, 205, 253, 254, 256, 257, 293, 308, 315, 368, 369

RICHLAND (76) — 61, 205, 319

ROCK ISLAND (15) — 61, 139, 141, 205, 319, 359, 364

ST. CLAIR (80) — 61, 141, 205, 319

SALINE (94) — 61, 79, 140, 142, 205, 210, 254, 256, 257, 258, 262, 308, 319, 394, 395

SANGAMON (54) — 61, 139, 205, 319

SCHUYLER (48) — 61, 139, 205

SCOTT (52) — 61, 205

SHELBY (63) — 61, 205, 319, 320, 321

STARK (30) — 61, 139, 141, 205, 274, 275, 319, 342

STEPHENSON (2) — 61, 149, 205

TAZEWELL (39) — 61, 139, 141, 142, 171, 190, 205, 215, 217, 218, 319, 385

UNION (99) — 61, 80, 139, 140, 141, 142, 144, 165, 173, 205, 220, 238, 253, 254, 256, 257, 293, 308, 319, 372, 383, 385, 391, 392, 393

VERMILION (41) — 61, 128, 142, 173, 205

WABASH (88) — 61, 115, 130, 131, 133, 139, 141, 168, 205, 293, 319, 370

WARREN (33) — 61, 205

WASHINGTON (83) — 61, 205

WAYNE (86) — 61, 205

WHITE (89) — 61, 142, 197, 205, 210, 230, 257, 332, 362, 370

WHITESIDE (14) — 61, 190, 205, 364

WILL (23) — 51, 61, 74, 133, 135, 139, 141, 154, 155, 156, 160, 161, 205, 248, 250, 312, 315, 319, 337, 338, 370

WILLIAMSON (93) — 61, 69, 140, 205, 253, 256, 257, 262, 263, 276, 277, 315, 319, 391, 392, 393

WINNEBAGO (3) — 43, 56, 61, 113, 114, 127, 139, 205, 269, 359

WOODFORD (29) — 7, 61, 139, 205

IV. REGIONS (R1-R5)

REGION 1 (R-1) — 198, 281, 282, 284, 285, 286, 292, 301, 313

REGION 2 (R-2) — 9, 10, 27, 40, 41, 50, 70, 95, 98, 123, 134, 166, 167, 173, 198, 282, 285, 286, 292, 302, 359, 386

REGION 3 (R-3) — 21, 50, 52, 53, 54, 55, 65, 84, 107, 108, 129, 167, 171, 173, 180, 182, 216, 281, 282, 285, 292, 301, 302, 313, 327, 359, 363

REGION 4 (R-4) — 32, 33, 255, 272, 282, 296, 302, 313, 327, 376

REGION 5 (R-5) — 2, 107, 120, 126, 167, 203, 243, 244, 247, 255, 264, 265, 281, 293, 296, 309, 313, 314, 341, 359, 362, 380, 382, 383, 391, 392

V. ANTHOCEROTAE (hornworts)

27, 31, 32, 33, 53, 54, 55, 67, 78, 79, 80, 118, 119, 120, 121, 141, 142, 144, 165, 181, 189, 211, 227, 228, 234, 238, 249, 251, 253, 262, 263, 266, 267, 304, 307, 308, 319, 321, 329, 331, 341, 346, 349, 356, 357, 383, 388, 396

VI. HEPATICAE (liverworts)

1, 27, 28, 31, 32, 33, 34, 35, 36, 37, 38, 45, 46, 47, 51, 53, 54, 55, 61, 71, 73, 76, 77, 78, 79, 80, 82, 92, 93, 94, 95, 97, 101, 102, 103, 104, 105, 106, 107, 108, 110, 112, 114, 118, 119, 120, 121, 122, 123, 124, 125, 126, 129, 138, 141, 142, 144, 145, 146, 147, 148, 149, 150, 153, 154, 161, 165, 168, 169, 179, 181, 187, 189, 199, 201, 202, 203, 207, 208, 209, 211, 213, 214, 220, 222, 223, 224, 225, 229, 231, 234, 235, 236, 237, 238, 241, 245, 248, 251, 264, 265, 266, 269, 272, 276, 277, 278, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 298, 304, 307, 308, 309, 318, 319, 321, 328, 329, 330, 331, 340, 341, 342, 343, 344, 346, 348, 349, 350, 351, 352, 353, 354, 356, 357, 367, 368, 369, 372, 374, 375, 380, 381, 383, 388, 391, 392, 393, 394, 395, 396

VII. MUSCI (mosses, excluding sphagna)

2, 3, 4, 5, 7, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 44, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 69, 70, 72, 74, 75, 76, 77, 78, 81, 83, 84, 85, 87, 88, 89, 90, 91, 95, 96, 100, 106, 109, 111, 112, 113, 114, 115, 116, 117, 118, 121, 122, 125, 127, 128, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 143, 144, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 170, 171, 172, 173, 174, 175, 176, 178, 179, 180, 181, 182, 183, 184, 185, 186, 188, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 204, 205, 206, 207, 208, 209, 210, 211, 212, 215, 216, 217, 218, 219, 222, 223, 224, 225, 226, 229, 230, 231, 232, 234, 235, 238, 239, 240, 241, 242, 243, 244, 246, 247, 248, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 279, 280, 281, 282, 294, 296, 297, 299, 300, 301, 302, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 342, 343, 344, 345, 346, 347, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 366, 367, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393

VIII. SPHAGNUM

6, 8, 9, 10, 11, 12, 16, 17, 20, 29, 30, 31, 32, 33, 61, 62, 68, 72, 76, 77, 86, 90, 95, 96, 98, 99, 109, 110, 112, 113, 138, 140, 144, 157, 158, 159, 164, 169, 174, 177, 179, 193, 205, 211, 221, 233, 234, 235, 246, 251, 255, 256, 257, 259, 260, 261, 266, 272, 294, 303, 310, 315, 318, 329, 331, 338, 339, 356, 361, 362, 364, 365, 366, 367, 368, 369, 373, 374, 375, 388

IX. ANATOMY/DEVELOPMENTAL MORPHOLOGY

10, 40, 41, 45, 46, 47, 53, 67, 69, 92, 97, 124, 147, 149, 153, 162, 167, 202, 204, 227, 228, 237, 262, 263, 264, 265, 276, 277, 322, 323, 324, 387, 394, 395

X. ANIMAL/BRYOPHYTE ASSOCIATION

35, 98, 243, 244, 259, 260, 270, 295

XI. CULTURING

40, 45, 46, 69, 82, 93, 146, 147, 199, 202, 206, 209, 210, 211

XII. CYTOLOGY

36, 90, 93, 119, 232, 249, 391, 394

XIII. ECOLOGY

4, 10, 29, 30, 96, 113, 224, 225, 246, 303, 305, 325, 328, 337, 338, 339, 343, 344, 347, 367, 372, 373, 374, 375, 378, 380, 382, 391, 392

XIV. FOSSIL

94, 178, 179, 182, 203, 206, 215, 216, 217, 218, 273

XV. PHYSIOLOGY

124, 201, 212, 213, 214, 239, 322, 323, 324, 325, 376

XVI. REPRODUCTIVE BIOLOGY

7, 39, 41, 73, 123, 201, 212, 218, 258

XVII. REVEGETATION/SUCCESSION

68, 71, 96, 113, 125, 127, 138, 209, 251, 261, 295, 308, 311, 328, 372, 380, 382

CHECKLIST OF THE BRYOPHYTES REPORTED IN THE LITERATURE FROM ILLINOIS

Nomenclature follows Stotler and Crandall-Stotler (1977) for the hornworts and liverworts, and Crum and Anderson (1981) and Crum (1983) for the mosses, except *Ctenidium* which follows Nishimura (1985) and *Didymodon* which follows Zander (1976), although some taxa are treated *sensu lato* (*s.l.*)

* = fossil reports only

[THIS LIST WAS GLEANED FROM THE LITERATURE AND WHILE I HAVE STUDIED SOME OF THE SPECIMENS I WILL NOT VOUCH FOR THE ACCURACY OF ALL REPORTS]

Anthocerotae (hornworts) (3)

Anthoceros — 78, 249, 331, 357

Anthoceros punctatus L. — 31, 32, 33, 79, 120, 141, 142, 165, 211, 238, 262, 263, 349, 383

Notothylas orbicularis (Schwein.) Sull. — 31, 32, 33, 53, 55, 119, 120, 141, 144, 189, 211, 249, 253, 262, 263, 308, 341, 349, 383, 396

Phaeoceros laevis (L.) Prosk. subsp. *carolinianus* (Michx.) Prosk. — 27, 31, 32, 33, 53, 54, 55, 67, 79, 80, 118, 120, 121, 141, 142, 144, 165, 181, 189, 211, 227, 228, 234, 238, 251, 262, 263, 266, 267, 304, 307, 308, 319, 321, 346, 349, 356, 383, 388, 396

Hepaticae (liverworts) (118)

Anastrophyllum michauxii (Web.) Bruch *ex* Sull. — 28

Aneura pinguis (L.) Dum. — 31, 33, 55, 73, 120, 121, 141, 165, 189, 238, 248, 264, 265, 266, 308, 341, 349, 383

Asterella saccata (Wahlenb.) Evans — 118, 284, 292

Asterella tenella (L.) P.-Beauv. — 31, 53, 54, 55, 79, 80, 120, 141, 169, 189, 211, 241, 308, 319, 321, 341, 349, 352, 383, 396

Athalamia hyalina (Sommert.) Hatt. — 284, 292

Bazzania denudata (Torr. *ex* Gott. *et al.*) Trev. — 341

Bazzania tricrenata (Wahlenb.) Lindb. — 34, 79, 144, 241, 308, 341, 372

Bazzania trilobata (L.) S. Gray — 31, 32, 33, 76, 80, 144, 189, 201, 211, 222, 278, 290, 308, 319, 321, 328, 341, 372

Blasia pusilla L. — 31, 32, 33, 79, 121, 124, 141, 189, 211, 266, 298, 307, 308, 331, 341, 356, 357

Blepharostoma trichophyllum (L.) Dum. — 31, 32, 33, 55, 76, 120, 141, 189, 202, 211, 278, 289, 307, 349, 383

Calypogeja — 28, 33

Calypogeja fissa (L.) Raddi subsp. *neogaea* Schust. — 80, 82, 202, 211, 308, 341

Calypogeja muelleriana (Schiffn.) K. Müll. subsp. *muelleriana* — 28, 31, 32, 33, 79, 80, 118, 120, 141, 142, 144, 189, 202, 211, 222, 234, 241, 278, 290, 307, 308, 319, 321, 328, 341, 349, 356, 372, 383, 396

Calypogeja sullivantii Aust. — 80, 308, 341

Cephalozia bicuspidata (L.) Dum. *s.l.* — 53, 55, 76, 120, 122, 138, 141, 142, 144, 181, 209, 291, 308, 341, 349, 383

Cephalozia catenulata (Hüb.) Lindb. — 79, 80, 211, 308, 341

Cephalozia connivens (Dicks.) Lindb. *s.l.* — 31, 80, 120, 141, 142, 189, 211, 251, 291, 308, 330, 341, 349, 383, 388

Cephalozia lunulifolia (Dum.) Dum. — 31, 32, 33, 61, 76, 80, 118, 189, 211, 241, 291, 307, 308, 319, 321, 328, 330, 341, 374, 375

Cephalozia pleniceps (Aust.) Lindb. *s.l.* — 80, 118, 234, 308, 341

Cephaloziella — 34, 241

Cephaloziella divaricata (Sm.) Schiffn. — 53, 54, 55, 76, 79, 80, 120, 293, 349, 372, 374, 383, 396

Cephaloziella elachista (Jack) Schiffn. — 293, 368, 369

Cephaloziella hampeana (Nees) Schiffn. — 33, 80, 251, 307, 308, 341, 388, 396

Cephaloziella rubella (Nees) Warnst. *s.l.* — 38, 120, 141, 142, 211, 293, 341, 349, 350, 353, 383

Chiloscyphus pallescens (Ehrh. *ex* Hoffm.) Dum. — 120, 141, 165, 211, 238, 293, 308, 341, 349, 383

Chiloscyphus polyanthus (L.) Corda — 141, 181, 266

Cololejeunea biddlecomiae (Aust.) Evans — 33, 79, 80, 189, 211, 234, 308, 328, 341, 372, 396

Conocephalum conicum (L.) Lindb. — 27, 31, 32, 33, 35, 53, 54, 55, 61, 78, 79, 80, 95, 110, 112, 118, 120, 141, 142, 144, 150, 165, 181, 189, 209, 211, 220, 224, 225, 234, 238, 241, 245, 266, 307, 308, 319, 321, 331, 341, 342, 343, 349, 352, 356, 357, 374, 383, 396

Diplophyllum apiculatum (Evans) Steph. — 33, 61, 79, 80, 118, 189, 202, 211, 241, 307, 308, 328, 341, 372, 396

Dumortiera hirsuta (Sw.) Nees — 208

Fossombronia — 241, 264

Fossombronia cristula Aust. — 283, 292

Fossombronia foveolata Lindb. — 79, 211, 251, 308, 341, 388, 396

Frullania bolanderi Aust. — 189

Frullania brittoniae Evans — 1, 106, 120, 211, 308, 341

Frullania eboracensis Gott. — 28, 31, 33, 51, 53, 54, 55, 61, 79, 80, 118, 120, 122, 141, 142, 146, 181, 189, 202, 209, 211, 229, 234, 266, 272, 278, 307, 308, 321, 341, 342, 344, 349, 356, 383, 396

Frullania ericoides (Nees) Gott. — 31, 80, 120, 141, 144, 189, 211, 241, 308, 341, 349, 383, 396

Frullania inflata Gott. — 31, 61, 79, 80, 118, 189, 202, 209, 211, 241, 304, 308, 319, 321, 341, 346, 372, 396

Frullania kunzei Lehm. *et* Lindenb. — 118, 341

Frullania riparia Hampe *ex* Lehm. — 31, 53, 54, 55, 79, 120, 141, 189, 202, 211, 238, 278, 308, 341, 349, 383

Frullania tamarisci (L.) Dum. subsp. *asagrayana* (Mont.) Hatt 31, 32, 33, 79, 80, 120, 141, 142, 144, 148, 189, 202, 211, 241, 278, 307, 308, 319, 321, 328, 349, 383

Geocalyx graveolens (Schrad.) Nees — 33, 61, 120, 141, 142, 189, 211, 293, 341

Harpanthus scutatus (Web. *et* Mohr) Spruce — 31, 33, 61, 120, 141, 189, 211, 229, 278, 293, 304, 307, 346, 349

Jamesoniella autumnalis (DC.) Steph. — 32, 33, 55, 61, 79, 80,

120, 124, 142, 146, 189, 202, 209, 211, 278, 290, 307, 308, 319, 321, 328, 341, 349, 383, 396

Jubula pennsylvanica (Steph.) Evans — 33, 79, 80, 241, 308, 328, 341, 372, 396

Jungermannia — 241
Jungermannia caespiticia Lindenb. — 120, 142
Jungermannia crenuliformis Aust. — 31, 33, 61, 79, 80, 189, 202, 211, 266, 328, 341, 356, 372, 396
Jungermannia fossombronioides Aust. — 1, 31, 79, 80, 120, 211, 266, 290, 396
Jungermannia gracillima Sm. — 31, 79, 138, 189, 202, 211, 290, 308
Jungermannia hyalina Lyell — 31, 120, 141, 142, 189, 211, 266, 278, 290, 308, 341, 349, 356, 383, 396
Jungermannia leiantha Grolle — 31, 33, 120, 122, 202, 211, 290, 341
Jungermannia pumila With. — 189, 211, 290

Kurzia sylvatica (Evans) Grolle — 80

Lejeunea — 241
Lejeunea cavifolia (Ehrh.) Lindb. — 31, 33, 122, 189, 211, 308, 341
Lejeunea lamacerina (Steph.) Schiffn. subsp. *gemminata* Schust. — 308, 328, 341, 396
Lejeunea laetivirens Nees *et* Mont. — 80

Lepidozia reptans (L.) Dum. — 31, 32, 33, 189, 202, 211, 278

Leucolejeunea clypeata (Schwein.) Evans — 33, 79, 80, 146, 222, 241, 308, 341, 372, 396
Leucolejeunea unciloba (Lindenb.) Evans — 80, 328, 372

Lophocolea — 372
Lophocolea bidentata (L.) Dum. — 53, 55, 79, 80, 118, 120, 141, 165, 211, 238, 293, 308, 341, 349, 383
Lophocolea cuspidata (Nees) Limpr. var. *alata* K. Müll. — 80, 120, 142, 209, 234, 293, 308, 341, 396
Lophocolea heterophylla (Schrad.) Dum. — 28, 31, 32, 33, 35, 37, 51, 53, 55, 79, 80, 101, 118, 120, 122, 124, 141, 142, 144, 146, 147, 165, 181, 189, 202, 209, 211, 234, 235, 238, 241, 251, 266, 269, 272, 277, 278, 293, 304, 307, 308, 319, 321, 328, 341, 342, 344, 349, 350, 356, 374, 383, 388, 391, 392, 393, 396
Lophocolea minor Nees — 31, 33, 34, 51, 76, 79, 80, 120, 141, 142, 202, 209, 211, 266, 293, 307, 328, 349, 383, 396

Lophozia bicrenata (Schmid. *ex* Hoffm.) Dum. — 33, 79, 189, 211
Lophozia incisa (Schrad.) Dum. — 31, 33, 189, 211, 278, 290, 307

Lunularia cruciata (L.) Dum. — 114, 141, 209, 245

Mannia fragrans (Balbis) Frye *et* Clark — 31, 33, 53, 54, 55, 80, 107, 108, 120, 161, 165, 189, 211, 234, 238, 285, 292, 308, 341, 349, 352, 383
Mannia sibirica (K. Müll.) Frye *et* Clark — 284, 292
Mannia triandra (Scop.) Grolle — 33, 76, 104, 120, 141, 285, 286, 292

Marchantia polymorpha L. — 28, 31, 32, 33, 53, 54, 55, 78, 92, 95, 114, 118, 120, 121, 122, 125, 126, 141, 142, 144, 169, 189, 201, 209, 211, 213, 214, 231, 234, 245, 266, 269, 307, 331, 340, 341, 343, 346, 349, 352, 356, 357, 367, 383

Marsupella emarginata (Ehrh.) Dum. — 80
Marsupella sphacelata (Gieseke) Dum. — 79, 308, 341

Metzgeria conjugata Lindb. — 79, 80, 144, 241, 264, 265, 308, 328, 330, 341, 396
Metzgeria furcata (L.) Dum. — 32, 33, 79, 80, 264, 265, 308, 330, 341, 372

Mylia taylorii (Hook.) S. Gray — 55, 120, 141, 208, 287, 349, 383

Nardia lescurii (Aust.) Underw. — 61, 207, 211, 276

Nowellia curvifolia (Dicks.) Mitt. — 31, 32, 33, 53, 54, 55, 79, 80, 109, 120, 129, 141, 144, 189, 211, 241, 276, 278, 291, 308, 330, 341, 349, 372, 383, 391, 392, 393

Odontoschisma denudatum (Sw.) Trev. — 33, 120, 189, 211, 223, 350
Odontoschisma prostratum (Sw.) Trev. — 34, 76, 79, 80, 144, 234, 241, 291, 307, 308, 328, 341, 396

Pallavicinia lyellii (Hook.) Carruth. — 80, 141, 144, 165, 211, 238, 264, 265, 294, 308, 341, 396

Pedinophyllum interruptum (Nees) Kaal. — 120, 141, 287, 318

Pellia — 78, 329, 331, 355, 357
Pellia epiphylla (L.) Corda — 31, 32, 33, 61, 79, 80, 93, 119, 121, 141, 189, 211, 222, 241, 264, 265, 278, 307, 308, 319, 321, 328, 341, 372, 374, 396
Pellia neesiana (Gott.) Limpr. — 341

Plagiochila ludoviciana Sull. — 120, 141
Plagiochila porelloides (Torr. *ex* Nees) Lindenb. — 31, 32, 33, 79, 144, 179, 189, 202, 211, 222, 241, 278, 287, 293, 307, 308, 319, 321, 328, 341, 356, 372, 374, 375, 396
Plagiochila sharpii Blomq. — 328
Plagiochila undata Sull. — 76, 120, 142, 288, 293, 308
Plagiochila virginica Evans — 341

Pleuroclada albescens (Hook.) Spr. — 120, 141, 291, 349, 383

Porella pinnata L. — 79, 80, 120, 141, 142, 165, 168, 211, 238, 241, 293, 308, 374, 375, 396
Porella platyphylla (L.) Pfeiff. — 33, 53, 55, 120, 141, 142, 144, 153, 202, 209, 211, 234, 238, 266, 293, 308, 321, 341, 342, 354
Porella platyphylloidea (Schwein.) Lindb. — 28, 31, 32, 33, 51, 79, 118, 189, 202, 209, 211, 241, 278, 307, 319, 356, 374, 375, 396

Preissia quadrata (Scop.) Nees — 31, 32, 33, 141, 142, 189, 211, 266

Ptilidium ciliare (L.) Hampe — 53, 54, 55, 120, 141, 289, 349, 383
Ptilidium pulcherrimum (G. Web.) Hampe — 31, 33, 120, 142, 189, 209, 211, 289

Radula complanata (L.) Dum. — 31, 33, 54, 55, 120, 141, 142, 189, 211, 238, 278, 349, 372, 383
Radula mollis Lindenb. *et* Gott. — 341
Radula obconica Sull. — 79, 80, 118, 144, 146, 241, 293, 308, 328, 341, 372, 396

Reboulia hemisphaerica (L.) Raddi — 31, 32, 33, 45, 46, 55, 61, 78, 80, 97, 107, 108, 118, 120, 121, 142, 149, 150, 154, 161, 181, 189, 211, 223, 234, 236, 237, 266, 285, 292, 304, 307, 308, 319, 321, 331, 341, 346, 349, 352, 356, 357, 380, 383, 396

Riccardia latifrons Lindb. — 120, 141, 383
Riccardia multifida (L.) S. Gray — 33, 55, 120, 141, 264, 265, 349, 383
Riccardia palmata (Hedw.) Carruth. — 141

Riccia — 77, 95
Riccia austini Steph. — 241, 396
Riccia beyrichiana Hampe *ex* Lehm. — 55, 103, 120, 141, 156, 241, 349, 350, 351, 383, 396
Riccia bifurca Hoffm. — 141
Riccia cavernosa Hoffm. — 120, 141, 342, 349, 350, 351
Riccia dictyospora M.A. Howe — 79, 241, 396
Riccia fluitans L. — 28, 31, 32, 33, 53, 54, 55, 118, 120, 122, 125, 141, 189, 199, 211, 234, 238, 251, 308, 341, 349, 381, 383, 388, 396
Riccia frostii Aust. — 32, 33, 55, 76, 105, 118, 120, 141, 189, 211, 349, 350, 351, 383
Riccia glauca L. — 118, 141, 234
Riccia hirta (Aust.) Underw. — 79, 211, 241, 396
Riccia membranacea Gott. *et* Lindenb. — 396
Riccia nigrella DC. — 351
Riccia sorocarpa Bisch. — 102, 120, 141, 142, 209, 283, 292, 349, 350, 383
Riccia sullivantii Aust. — 120, 142, 181, 283, 292, 342
Ricciocarpos natans (L.) Corda — 28, 31, 32, 33, 36, 53, 54, 55, 71, 77, 95, 118, 120, 121, 123, 141, 142, 181, 187, 189, 209, 211, 223, 234, 251, 308, 341, 342, 349, 351, 381, 383, 388

Scapania — 78, 309, 357
Scapania curta (Mart.) Dum. — 202, 211
Scapania nemorosa (L.) Dum. — 31, 32, 33, 34, 35, 61, 79, 80, 118, 120, 121, 124, 141, 142, 144, 146, 181, 189, 202, 211,

222, 234, 241, 266, 278, 291, 307, 308, 319, 321, 328, 341, 349, 356, 372, 374, 383, 394, 395, 396
Scapania undulata (L.) Dum. — 79, 80, 120, 141, 142, 235, 266, 291, 308, 328, 341, 372, 394, 395

Sphaerocarpus texanus Aust. — 33, 118, 211, 234, 341

Trichocolea tomentella (Ehrh.) Dum. — 31, 32, 33, 53, 54, 55, 61, 79, 80, 141, 144, 145, 189, 202, 211, 278, 289, 307, 308, 341, 391, 392, 393

Musci (mosses) (391)

Acaulon muticum (Hedw.) C.M. var. *rufescens* (Jaeg.) Crum — 135, 139, 205, 209, 211, 252, 254, 255, 256, 257, 383
Acaulon schimperianum (Sull.) Sull. *ex* Sull. & Lesq. — 55, 89, 90, 139, 180, 194, 197, 205, 252, 333, 383
Acaulon triquetrum (Spruce) C.M. — 139, 188, 205, 383

Aloina brevirostris (Hook. & Grev.) Kindb. — 90
Aloina rigida (Hedw.) Limpr. — 90, 135, 139, 205, 383 (not from Illinois, Crum & Anderson 1981)

Amblystegium — 338
Amblystegium fluviatile (Hedw.) BSG — 31, 51, 90, 118, 139, 205, 211, 234, 256, 356
Amblystegium humile (P.-Beauv.) Crundw. *s.l.* — 31, 32, 33, 35, 118, 140, 170, 174, 181, 186, 194, 205, 209, 224, 225, 226, 234, 251, 256, 261, 294, 304, 319, 321, 342, 344, 346, 384, 387
Amblystegium noterophilum (Sull. & Lesq. *ex* Sull.) Holz. — 21, 70, 90, 139, 156, 194, 205
Amblystegium riparium (Hedw.) BSG — 28, 31, 32, 33, 35, 51, 53, 54, 55, 75, 122, 139, 143, 144, 156, 165, 170, 181, 193, 205, 209, 211, 229, 234, 242, 251, 256, 319, 321, 328, 339, 342, 344, 346, 355, 362, 383, 384, 387, 388
Amblystegium serpens (Hedw.) BSG — 31, 32, 33, 35, 51, 52, 53, 54, 55, 116, 118, 122, 139, 140, 143, 170, 181, 205, 209, 211, 224, 225, 231, 234, 242, 251, 269, 271, 304, 339, 342, 344, 355, 383, 384
var. *juratzkanum* (Schimp.) Rau & Herv. — 24, 31, 48, 118, 139, 140, 205, 234, 255, 256, 257, 271, 319, 321, 346, 362
var. *serpens* — 48, 256, 319, 321, 362
Amblystegium tenax (Hedw.) C. Jens. *s.l.* — 28, 31, 48, 51, 52, 53, 54, 55, 61, 118, 128, 139, 140, 144, 156, 165, 181, 205, 209, 211, 231, 234, 238, 256, 304, 319, 321, 339, 342, 346, 362, 383, 384
Amblystegium varium (Hedw.) Limpr. — 28, 31, 32, 33, 48, 51, 118, 122, 128, 139, 140, 143, 144, 155, 165, 170, 181, 205, 209, 211, 224, 225, 226, 229, 231, 234, 238, 251, 256, 269, 304, 319, 321, 323, 328, 339, 342, 344, 346, 356, 362, 384, 387, 388

Anacamptodon splachnoides (Froel. *ex* Brid.) Brid. — 3, 55, 84, 106, 133, 181, 183, 188, 211, 255, 256, 257, 297, 362, 383

Anomodon — 155
Anomodon attenuatus (Hedw.) Hüb. — 20, 28, 31, 32, 33, 48, 51, 53, 54, 55, 61, 118, 139, 140, 143, 165, 179, 181, 184, 205, 209, 211, 224, 225, 234, 238, 241, 256, 266, 269, 271, 272, 304, 307, 319, 321, 328, 339, 342, 344, 346, 354, 355, 356, 362, 372, 383, 384
Anomodon minor (Hedw.) Fürnr. — 31, 32, 33, 48, 51, 53, 54, 55, 61, 118, 128, 139, 140, 181, 184, 205, 209, 211, 224, 225, 234, 241, 242, 256, 269, 271, 304, 307, 319, 321, 342, 344, 346, 354, 355, 356, 360, 362, 383, 384, 387
Anomodon rostratus (Hedw.) Schimp. — 31, 32, 33, 48, 51, 52, 53, 54, 55, 118, 122, 128, 139, 140, 143, 184, 205, 207, 209, 211, 224, 225, 234, 241, 242, 256, 269, 271, 304, 319, 321, 328, 338, 339, 342, 346, 354, 355, 356, 362, 383, 384
Anomodon rugelii (C.M.) Keissl. — 48, 72, 90, 140, 143, 205, 224, 225, 256, 257
Anomodon viticulosus (Hedw.) Hook. & Tayl. — 28, 139, 140, 205, 256, 338, 339, 383 (most Illinois reports are probably referable to either *A. minor* or *A. rugelii*)

Aphanorrhegma serratum (J. Hook. & Wils. *ex* Drumm.) Sull. — 31, 32, 33, 51, 55, 139, 181, 205, 209, 211, 234, 319, 321, 342, 344, 383

Archidium alternifolium (Hedw.) Schimp. — 139, 205, 316, 317
Archidium donnellii Aust. — 90, 316, 317
Archidium ohioense Schimp. *ex* C.M. — 139, 205, 316, 317, 318, 383

Astomum muhlenbergianum (Sw.) Grout — 51, 139, 181, 205, 209, 211, 234, 304, 342, 346, 355, 383

Atrichum — 313, 331
Atrichum angustatum (Brid.) BSG — 13, 25, 31, 32, 33, 34, 35, 52, 53, 54, 61, 118, 122, 128, 139, 140, 143, 144, 153, 164, 181, 186, 204, 205, 209, 211, 224, 225, 226, 229, 234, 235, 238, 241, 243, 244, 251, 256, 266, 267, 269, 294, 304, 307, 319, 321, 322, 328, 342, 344, 346, 354, 355, 356, 362, 372, 374, 375, 378, 380, 382, 383, 384, 387, 388, 391, 392, 393
Atrichum crispum (James) Sull. — 118, 224, 225, 282
Atrichum tenellum (Röhl.) BSG — 174, 205, 234
Atrichum undulatum (Hedw.) P.-Beauv. — 28, 31, 32, 33, 48, 51, 55, 61, 122, 128, 139, 143, 165, 169, 186, 209, 211, 224, 225, 238, 241, 242, 251, 294, 304, 321, 338, 339, 346, 347, 355, 356, 362, 383, 384, 387
var. *altecristatum* Ren. & Card. — 172, 181, 205, 234, 342, 346
var. *attenuatum* BSG — 205, 314
var. *oerstedianum* (C.M.) Crum — 181, 205, 234, 342
var. *undulatum* — 181, 205, 256

Aulacomnium androgynum (Hedw.) Schwaegr. — 90, 205, 259, 260, 261
Aulacomnium heterostichum (Hedw.) BSG — 31, 32, 33, 51, 53, 54, 55, 61, 128, 139, 140, 143, 144, 181, 184, 204, 205, 209, 211, 224, 225, 234, 241, 256, 282, 304, 319, 321, 325, 328, 339, 346, 354, 355, 356, 362, 374, 376, 383, 387
Aulacomnium palustre (Hedw.) Schwaegr. — 29, 31, 35, 138, 139, 140, 159, 181, 193, 205, 211, 234, 251, 256, 261, 271, 294, 339, 346, 362, 388

Barbula cancellata C.M. — 118, 205, 234, 255, 256, 257
Barbula convoluta Hedw. — 118, 179, 181, 205, 234
Barbula unguiculata Hedw. — 18, 31, 32, 33, 48, 51, 52, 53, 54, 55, 118, 138, 139, 143, 181, 205, 209, 211, 224, 225, 234, 242, 251, 256, 269, 304, 321, 342, 344, 346, 354, 355, 362, 383, 384, 387
Barbula vinealis Brid. — 139, 205, 383

Bartramia pomiformis Hedw. — 31, 32, 33, 48, 51, 52, 53, 54, 55, 61, 118, 128, 134, 139, 140, 143, 169, 204, 205, 209, 211, 224, 225, 234, 235, 241, 242, 266, 304, 305, 307, 319, 321, 325, 338, 339, 344, 346, 354, 356, 362, 374, 376, 378, 383, 387
Brachylema subulatum (P.-Beauv.) Schimp. *ex* Card. — 90, 133, 169, 197, 210, 230, 332, 370
Brachythecium — 154, 179, 184, 260, 372
Brachythecium acuminatum (Hedw.) Aust. — 31, 33, 51, 52, 53, 54, 55, 118, 139, 181, 209, 211, 234, 242, 251, 269, 271, 319, 321, 338, 339, 342, 346, 355, 383
var. *acuminatum* — 205, 256
var. *cytophyllum* (Kindb.) Redf. *ex* Crum — 122, 231, 339, 362
Brachythecium albicans (Hedw.) BSG — 362
Brachythecium calcareum Kindb. — 118, 205, 256, 304, 362
Brachythecium campestre (C.M.) BSG — 117, 205, 235, 238, 319, 320, 321, 342
Brachythecium collinum (Schleich. *ex* C.M.) BSG — 139, 205, 383
Brachythecium digastrum C.M. & Kindb. *ex* Macoun & Kindb. — 28, 51, 205, 209, 211, 338, 339 (all reports are probably referable to *B. oxycladon*)
Brachythecium oxycladon (Brid.) Jaeg. & Sauerb. — 28, 31, 32, 33, 48, 53, 54, 55, 61, 118, 122, 128, 139, 140, 143, 144, 179, 181, 205, 209, 211, 224, 225, 234, 242, 251, 256, 266, 269, 270, 271, 304, 319, 321, 339, 342, 346, 354, 355, 356, 362, 374, 378, 380, 382, 383, 384
Brachythecium plumosum (Hedw.) BSG — 31, 144, 205, 211, 256, 339, 356, 362
Brachythecium reflexum (Starke *ex* Web. & Mohr) BSG — 205, 234, 342
Brachythecium rivulare BSG — 31, 33, 53, 54, 55, 139, 194, 205, 211, 234, 256, 268, 294, 337, 338, 339, 346, 356, 362, 383
Brachythecium rutabulum (Hedw.) BSG — 51, 55, 90, 139, 143, 181, 205, 209, 224, 225, 256, 261, 269, 338, 339, 342

Brachythecium salebrosum (Web. & Mohr) BSG — 28, 31, 32, 33, 35, 48, 51, 54, 55, 61, 118, 122, 128, 139, 140, 143, 169, 181, 205, 209, 211, 224, 225, 226, 242, 251, 256, 266, 269, 270, 271, 304, 307, 319, 321, 328, 339, 342, 344, 346, 354, 356, 362, 374, 378, 383, 384, 387
Brachythecium velutinum (Hedw.) BSG — 342
Brothera leana (Sull.) C.M. — 31, 55, 139, 205, 209, 254, 255, 256, 296, 308, 383
Brotherella recurvans (Michx.) Fl. — 31, 174, 205, 211, 271, 319, 321, 387
Brotherella tenuirostris (Bruch & Schimp. *ex* Sull.) Fl. — 5, 139, 205, 209, 211, 241, 253, 255, 256, 257, 372, 383
Bruchia flexuosa (Sw. *ex* Schwaegr.) C.M. — 3, 56, 58, 60, 90, 135, 139, 144, 197, 205, 208, 209, 211, 251, 252, 255, 256, 257, 267, 274, 275, 362, 383, 388
Bryhnia graminicolor (Brid.) Grout — 31, 32, 33, 51, 55, 118, 132, 133, 139, 205, 209, 211, 234, 238, 256, 270, 304, 319, 321, 342, 346, 356, 362, 383
Bryhnia novae-angliae (Sull. & Lesq. *ex* Sull.) Grout — 51, 139, 181, 205, 252, 255, 256, 257, 294, 304, 339, 346, 362, 383
Bryoandersonia illecebra (Hedw.) Robins. — 31, 32, 33, 34, 35, 51, 55, 61, 90, 118, 132, 133, 139, 140, 165, 181, 205, 211, 234, 238, 241, 256, 266, 294, 307, 321, 328, 355, 356, 362, 380, 382, 383
Bryoerythrophyllum recurvirostrum (Hedw.) Chen — 31, 53, 55, 118, 139, 140, 181, 205, 211, 234, 256, 342, 383
Bryohaplocladium microphyllum (Hedw.) Wat. & Iwats. — 55, 139, 143, 209, 211, 234, 251, 339, 342, 346, 362, 383
Bryohaplocladium virginianum (Brid.) Broth. — 31, 48, 139, 205, 209, 234, 241, 251, 256, 271, 304, 346, 362
Bryum — 77, 179, 331
Bryum algovicum Sendtn. *ex* C.M. — 31, 55, 85, 90, 118, 134, 139, 205, 211, 234, 271, 346
Bryum argenteum Hedw. — 28, 31, 32, 33, 51, 53, 54, 55, 118, 122, 139, 181, 184, 204, 209, 211, 224, 225, 226, 234, 241, 242, 251, 256, 266, 269, 319, 321, 339, 342, 344, 346, 354, 355, 356, 362, 380, 382, 383, 384, 387
Bryum bicolor Dicks. — 205, 209, 223
Bryum caespiticium Hedw. — 17, 31, 32, 33, 51, 52, 53, 54, 55, 118, 122, 128, 143, 181, 205, 209, 211, 224, 225, 229, 234, 242, 251, 266, 269, 304, 319, 321, 339, 342, 344, 346, 355, 362, 374, 378, 383, 387, 388
Bryum capillare Hedw. — 139, 205, 238, 256, 269, 339, 383
Bryum creberrimum Tayl. — 43, 53, 55, 118, 139, 181, 205, 209, 211, 226, 242, 269, 304, 319, 321, 339, 342, 362, 383
Bryum klinggraeffii Schimp. *ex* Klinggr. — 208, 209
Bryum muehlenbeckii BSG — 208
Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer & Scherb. — 31, 33, 51, 55, 139, 181, 205, 209, 211, 215, 217, 218, 224, 225, 229, 234, 238, 241, 251, 256, 269, 271, 307, 319, 321, 338, 339, 346, 362, 383, 388
Bryum uliginosum (Brid.) BSG — 53, 54, 55, 85, 90, 117, 134, 139, 183, 205, 209, 242, 383
Buxbaumia aphylla Hedw. — 32, 33, 34, 90, 205, 256, 257, 362
Callicladium haldanianum (Grev.) Crum — 28, 31, 51, 53, 54, 55, 138, 181, 186, 205, 209, 211, 224, 225, 234, 235, 255, 256, 257, 259, 260, 261, 271, 322, 339, 342, 343, 383, 387
Calliergon cordifolium (Hedw.) Kindb. — 32, 33, 85, 90, 174, 194, 205, 260, 261, 339, 362
Calliergon giganteum (Schimp.) Kindb. — 208
**Calliergon richardsonii* (Mitt.) Kindb. *ex* Warnst. — 179
**Calliergon trifarium* (Web. & Mohr) Kindb. — 179
Calliergonella cuspidata (Hedw.) Loeske — 31, 139, 193, 205, 211, 216, 269, 273
Campylium — 184
Campylium chrysophyllum (Brid.) J. Lange — 31, 32, 33, 51, 52, 55, 118, 139, 143, 179, 181, 205, 209, 211, 234, 239, 241, 256, 261, 267, 269, 271, 304, 338, 339, 342, 346, 355, 356, 362, 383
Campylium hispidulum (Brid.) Mitt. — 31, 32, 33, 48, 51, 52, 53, 54, 55, 139, 143, 181, 186, 205, 209, 211, 226, 229, 234, 251, 256, 269, 271, 304, 319, 321, 339, 342, 346, 354, 355, 356, 362, 383, 384, 387
Campylium polygamum (BSG) C. Jens. — 139, 205, 304
Campylium radicale (P.-Beauv.) Grout — 43, 53, 54, 55, 139, 205, 242, 338, 339, 354, 362
Campylium stellatum (Hedw.) C. Jens. — 31, 139, 133, 205, 215, 217, 218, 338, 339, 346
Campylopus tallulensis Sull. & Lesq. *ex* Sull. — 205, 253, 256
Catoscopium nigritum (Hedw.) Brid. — 208, 210
Ceratodon purpureus Kindb. *ex* Macoun — 15, 28, 31, 32, 33, 48, 52, 53, 55, 74, 77, 118, 122, 128, 138, 139, 143, 169, 181, 205, 209, 211, 224, 225, 226, 242, 251, 255, 256, 257, 266, 269, 304, 307, 319, 321, 338, 339, 342, 346, 354, 355, 356, 362, 383, 384, 387, 388
**Cinclidium stygium* Sw. — 217, 218
Clasmatodon parvulus (Hampe) Hook. & Wils. *ex* Sull. — 55, 90, 139, 205, 252, 256, 362, 383
Climacium — 331
Climacium americanum Brid. — 28, 31, 32, 33, 48, 51, 52, 53, 54, 55, 61, 118, 130, 131, 139, 140, 143, 144, 164, 167, 169, 184, 205, 209, 211, 224, 225, 234, 238, 241, 255, 256, 257, 260, 266, 269, 271, 294, 304, 305, 307, 319, 321, 322, 339, 354, 356, 362, 383, 384
Climacium dendroides (Hedw.) Web. & Mohr — 32, 33, 174, 184, 205, 259, 261
Conardia compacta (C.M.) Robins. — 31, 140, 205, 211, 255, 257
Cratoneuron commutatum (Hedw.) Roth — 90
Cratoneuron filicinum (Hedw.) Spruce — 31, 32, 33, 139, 194, 205, 211, 251, 342, 388
Cryphaea glomerata BSG *ex* Sull. — 90, 200
Ctenidium malacodes Mitt. — 205, 232, 253, 256, 308, 327, 339, 362
Desmatodon cernuus (Hüb.) BSG — 90, 174
Desmatodon obtusifolius (Schwaegr.) Schimp. — 31, 32, 33, 53, 54, 55, 61, 118, 139, 181, 205, 209, 211, 234, 251, 256, 346, 356, 362, 383, 388
Desmatodon plinthobius Sull. & Lesq. *ex* Sull. — 3, 135, 140, 205, 234, 256
Desmatodon porteri James *ex* Aust. — 31, 135, 139, 205, 211, 252, 255, 257, 346, 379
Desmatodon randii (Kenn.) Laz. — 87, 90, 116, 135, 174, 195, 205, 363
Dichelyma capillaceum (With.) Myr. — 55, 139, 169, 205, 206, 216, 383
Dicranella heteromalla (With.) Schimp. — 25, 28, 31, 32, 33, 34, 48, 51, 54, 55, 61, 118, 128, 138, 139, 140, 144, 155, 181, 204, 205, 209, 211, 224, 225, 231, 234, 241, 243, 244, 255, 256, 257, 266, 269, 271, 304, 307, 319, 321, 338, 339, 342, 344, 346, 355, 356, 362, 372, 383, 387
Dicranella rufescens (With.) Schimp. — 31, 48, 55, 90, 118, 139, 143, 205, 211, 383, 384, 387
Dicranella varia (Hedw.) Schimp. — 14, 22, 25, 31, 33, 48, 52, 55, 118, 129, 144, 181, 194, 204, 205, 209, 211, 231, 234, 255, 257, 269, 307, 319, 321, 342, 344, 346, 354, 355, 356, 362, 383, 384, 387
Dicranoweisia cirrata (Hedw.) Lindb. *ex* Milde — 197 (almost certainly a misdetermination)
Dicranum condensatum Hedw. — 205, 211, 247, 256, 281, 362, 383
Dicranum flagellare Hedw. — 31, 54, 55, 139, 205, 211, 224, 225, 255, 256, 257, 271, 335, 362, 383
Dicranum fulvum Hook. — 205, 241, 256, 328, 362, 372
Dicranum fuscescens Turn. — 170, 242, 274, 335, 362
Dicranum montanum Hedw. — 205, 211, 234, 255, 256, 257, 362
Dicranum polysetum Sw. — 3, 96, 174, 194, 205, 211
Dicranum scoparium Hedw. — 31, 32, 33, 51, 53, 54, 55, 61, 65, 66, 118, 140, 143, 144, 157, 164, 184, 204, 205, 209, 211, 224, 225, 234, 241, 256, 259, 260, 269, 271, 272, 304, 307,

309, 319, 321, 338, 339, 345, 354, 355, 356, 362, 373, 374, 375, 378, 380, 382, 383, 387
Dicranum spurium Hedw. — 205, 254, 255, 256, 257, 310
Dicranum undulatum Brid. — 31, 139, 211, 345, 362, 380, 382, 383
Dicranum viride Lindb. — 211, 335, 362

Didymodon fallax (Hedw.) Zander var. *fallax* — 22, 31, 48, 51, 61, 128, 139, 181, 205, 209, 211, 266, 307, 344, 356, 383, 384
Didymodon rigidulus Hedw. — 205, 383
Didymodon tophaceus (Brid.) Lisa — 118, 139, 205, 209, 234, 342, 383

Diphyscium foliosum (Hedw.) Mohr — 31, 32, 33, 61, 144, 204, 205, 211, 222, 241, 256, 307, 328, 356, 362, 387, 391, 392, 393

Discelium nudum (Dicks.) Brid. — 55, 90, 134, 139, 183, 194, 205, 318, 383

Distichium capillaceum (Hedw.) BSG — 179, 208, 210

**Ditrichum flexicaule* (Schwaegr.) Hampe — 179
Ditrichum lineare (Hedw.) Hampe — 208, 211
Ditrichum pallidum (Hedw.) Hampe — 15, 31, 32, 33, 48, 52, 53, 54, 55, 61, 118, 122, 138, 139, 140, 144, 169, 181, 184, 204, 205, 209, 211, 224, 225, 229, 234, 251, 256, 267, 269, 304, 307, 319, 321, 342, 344, 346, 355, 356, 362, 374, 378, 383, 387, 388
Ditrichum pusillum (Hedw.) Hampe — 31, 53, 55, 61, 122, 139, 181, 205, 211, 224, 225, 234, 238, 255, 256, 257, 307, 342, 346, 362, 383, 387

Drepanocladus — 216, 248, 273, 385
Drepanocladus aduncus (Hedw.) Warnst. — 21, 32, 48, 55, 116, 139, 156, 193, 218, 251, 261, 269, 338, 339, 383, 388
var. *aduncus* — 30, 33, 182, 205, 209, 385, 386
var. *kneiffii* (BSG) Mönk. — 139, 205, 209, 269, 319, 321
var. *polycarpus* (Bland. *ex* Voit) Roth — 21, 90, 139, 179, 205, 215, 217
Drepanocladus exannulatus (BSG) Warnst. — 139, 140, 179, 205
Drepanocladus fluitans (Hedw.) Warnst. — 139, 205, 269, 338, 339
Drepanocladus revolvens (Sw.) Warnst. var. *revolvens* — 179, 215, 218, 339
Drepanocladus uncinatus (Hedw.) Warnst. — 139, 205, 281
**Drepanocladus vernicosus* (Lindb. *ex* C. Hartm.) Warnst. — 205

Drummondia prorepens (Hedw.) Brid. — 31, 52, 53, 54, 55, 139, 140, 211, 241, 256, 271, 282, 304, 354, 356, 358, 362, 380, 382, 383

Encalypta ciliata Hedw. — 59, 139, 205, 224, 225, 383
Encalypta procera Bruch — 135, 139, 154, 166, 205

Enthostodon drummondii Sull. — 90, 134

Entodon brevisetus (Hook. & Wils. *ex* Wils.) Lindb. — 51, 139, 205, 209, 383
Entodon cladorrhizans (Hedw.) C.M. — 31, 48, 51, 52, 53, 55, 118, 122, 139, 140, 143, 181, 205, 209, 211, 224, 225, 234, 242, 251, 256, 269, 271, 319, 321, 338, 339, 342, 346, 354, 355, 356, 362, 383, 384
Entodon compressus C.M. — 31, 55, 118, 122, 130, 131, 139, 181, 205, 209, 211, 234, 271, 304, 342, 346, 362, 383, 387
Entodon macropodus (Hedw.) C.M. — 3, 205, 253, 255, 256, 257
Entodon seductrix (Hedw.) C.M. — 13, 31, 32, 33, 48, 51, 52, 53, 54, 55, 118, 122, 128, 130, 131, 133, 139, 143, 144, 181, 186, 205, 209, 211, 234, 241, 242, 251, 256, 266, 269, 271, 272, 304, 319, 321, 322, 339, 342, 344, 346, 354, 355, 356, 362, 380, 382, 383, 387
Entodon sullivantii (C.M.) Lindb. — 138, 204

Ephemerum cohaerens (Hedw.) Hampe — 139, 205
Ephemerum crassinervium (Schwaegr.) Hampe — 31, 55, 134, 139, 183, 211, 383
var. *crassinervium* — 205
var. *texanum* (Grout) Bryan & Anders. — 31, 205
Ephemerum serratum (Hedw.) Hampe — 319, 321
Ephemerum spinulosum Bruch & Schimp. *ex* Schimp. — 31, 32, 33, 51, 205, 209, 211

Eucladium verticillatum (Brid.) BSG — 205, 255, 256, 257

Eurhynchium — 184
Eurhynchium hians (Hedw.) Sande-Lac. — 31, 32, 33, 48, 51, 53, 54, 55, 61, 118, 122, 128, 139, 143, 181, 186, 205, 209, 211, 224, 225, 234, 241, 256, 304, 321, 342, 344, 346, 362, 383
Eurhynchium pulchellum (Hedw.) Jenn. — 48, 51, 61, 118, 122, 132, 133, 139, 179, 181, 205, 209, 234, 251, 256, 304, 342, 362, 383, 384
Eurhynchium riparioides (Hedw.) Rich. — 165, 205, 238, 256

Fabronia ciliaris (Brid.) Brid. — 32, 33, 118, 139, 197, 205, 209, 234, 257
Fabronia gymnostoma Sull. & Lesq. *ex* Sull. — 55, 139, 205, 383
Fabronia ravenelii Sull. — 31, 205, 211, 252, 271
Fabronia wrightii Sull. — 139, 205

Fissidens — 199
Fissidens adianthoides Hedw. — 32, 33, 53, 54, 55, 139, 140, 179, 205, 225, 256, 362, 383
Fissidens bryoides Hedw. — 31, 32, 33, 48, 53, 54, 55, 118, 139, 143, 155, 181, 205, 209, 211, 234, 241, 250, 251, 256, 304, 307, 319, 321, 342, 354, 356, 362, 372, 383, 384, 387
Fissidens bushii (Card. & Thér.) Card. & Thér. — 51, 118, 205, 211, 234, 241, 255, 256, 257, 304, 319, 320, 321, 362
Fissidens cristatus Wils. *ex* Mitt. — 31, 32, 33, 48, 51, 118, 139, 144, 155, 205, 211, 234, 238, 251, 252, 256, 266, 271, 304, 338, 339, 356, 362, 384
Fissidens fontanus (B.-Pyl.) Steud. — 42, 55, 100, 135, 136, 139, 144, 165, 175, 183, 205, 209, 238, 252, 257, 334, 362, 383
Fissidens garberi Lesq. & James — 256
Fissidens grandifrons Brid. — 42, 55, 139, 152, 205, 256, 266
Fissidens obtusifolius Wils. — 31, 33, 42, 55, 118, 139, 184, 205, 209, 211, 234, 362, 383
Fissidens osmundioides Hedw. — 28, 31, 122, 140, 205, 211, 238, 241, 255, 257, 328, 355, 356, 362, 372
Fissidens ravenelii Sull. — 205, 211, 255, 256, 257
Fissidens subbasilaris Hedw. — 31, 32, 33, 53, 54, 55, 139, 143, 169, 211, 256, 271, 304, 354, 356, 372, 383
Fissidens taxifolius Hedw. — 28, 31, 51, 54, 55, 69, 118, 139, 165, 170, 181, 186, 205, 209, 211, 224, 225, 234, 238, 241, 256, 304, 319, 321, 338, 342, 344, 356, 362, 372, 383

Fontinalis — 26, 33
Fontinalis dalecarlica Schimp. *ex* BSG — 55, 139, 205, 383, 384
Fontinalis filiformis Sull. & Lesq. *ex* Aust. — 55, 139, 205, 255, 257, 370, 383
Fontinalis flaccida Ren. & Card. — 256
Fontinalis hypnoides C.J. Hartm. — 370
Fontinalis missourica Card. — 90, 133, 139, 144, 160, 205, 256, 362, 370
Fontinalis novae-angliae Sull. — 140, 205, 241, 255, 256, 257, 362, 370
Fontinalis sphagnifolia (C.M.) Wijk & Marg. — 55, 90, 139, 205, 370, 383
Fontinalis sullivantii Lindb. — 55, 100, 165, 238

Forsstroemia ohioensis (Sull.) Lindb. — 139, 205, 383
Forsstroemia trichomitria (Hedw.) Lindb. — 31, 139, 205, 211, 256, 271, 383

Funaria americana Lindb. — 51, 90, 139, 161, 194, 205, 312, 323
Funaria flavicans Michx. — 72, 90, 115, 118, 134, 139, 181, 188, 197, 205, 231, 234, 242, 346, 362, 383
Funaria hygrometrica Hedw. — 21, 28, 31, 32, 33, 40, 41, 48, 52, 53, 54, 55, 115, 118, 128, 139, 140, 142, 143, 169, 181, 186, 204, 205, 209, 211, 224, 225, 226, 229, 231, 234, 239, 241, 242, 251, 256, 266, 269, 319, 321, 322, 338, 339, 340, 342, 344, 346, 354, 355, 356, 362, 383, 384, 387, 388

Grimmia — 109, 112, 150, 219, 342
Grimmia affinis Hoppe & Hornsch. *ex* Hornsch. — 139, 140, 383
Grimmia agassizii (Sull. & Lesq. *ex* Sull.) Jaeg. & Sauerb. — 256
Grimmia anodon BSG — 90, 176, 205, 234
Grimmia apocarpa Hedw. — 31, 32, 33, 48, 118, 128, 139, 140, 144, 204, 211, 224, 225, 234, 307, 319, 321, 338, 339, 344, 346, 355, 356, 362, 383, 384
var. *apocarpa* — 205, 209
var. *gracilis* Röhl. — 53, 54, 169, 181, 205, 242, 342, 354
Grimmia calyptrata Hook. *ex* Drumm. — 205

Grimmia laevigata (Brid.) Brid. — 31, 144, 205, 211, 241, 256, 307, 309, 362
Grimmia olneyi Sull. — 205, 256, 362, 380, 382
Grimmia ovalis (Hedw.) Lindb. — 140, 205
Grimmia pilifera P.-Beauv. — 144, 205, 256, 281, 362
Grimmia plagiopoda Hedw. — 208, 209
Grimmia pulvinata (Hedw.) Sm. *ex* Sm. & Sowerby — 90
Grimmia rivularis Brid. var. *rivularis* — 51, 139, 205, 209, 211, 241, 383
Grimmia trichophylla Grev. — 362

Gymnostomum aeruginosum Sm. — 31, 32, 33, 61, 118, 139, 155, 181, 205, 211, 234, 256, 257, 304, 307, 328, 338, 339, 356, 362
Gymnostomum recurvirostrum Hedw. — 26, 32, 55, 118, 139, 174, 205, 211, 234, 362

Haplohymenium triste (Ces. *ex* De Not.) Kindb. — 51, 53, 54, 55, 139, 209, 211, 241, 256, 383

Hedwigia ciliata (Hedw.) P.-Beauv. — 31, 32, 33, 53, 54, 55, 139, 144, 205, 209, 211, 224, 225, 234, 241, 256, 266, 271, 307, 319, 321, 344, 346, 354, 355, 356, 362, 380, 382, 383

Helodium blandowii (Web. & Mohr) Warnst. — 85, 90, 205, 342
Helodium paludosum (Sull.) Aust. — 3, 106, 133, 183, 205, 255, 256, 257, 259, 260, 261, 294, 339, 362

Herpetineuron toccoae (Sull. & Lesq. *ex* Lesq.) Card. — 90, 254, 256, 257

Herzogiella striatella (Brid.) Iwats. — 139, 372
Herzogiella turfacea (Lindb.) Iwats. — 3, 90, 171, 173, 175, 194, 224, 225, 342

Heterocladium dimorphum (Brid.) BSG — 55, 139, 383

Homalotheciella subcapillata (Hedw.) Broth. — 53, 54, 55, 139, 205, 211, 254, 256, 354, 362

Homomallium adnatum (Hedw.) Broth. — 52, 53, 54, 55, 118, 139, 144, 209, 211, 224, 225, 234, 241, 256, 271, 304, 328, 339, 356, 362, 383

Hookeria acutifolia Hook. & Grev. — 31, 61, 90, 205, 211, 356, 371

Hygrohypnum alpestre (Hedw.) Loeske — 205
Hygrohypnum luridum (Hedw.) Jenn. — 181
Hygrohypnum ochraceum (Turn. *ex* Wils.) Loeske — 140, 205

Hylocomium splendens (Hedw.) BSG — 179, 282

Hyophila involuta (Hook.) Jaeg. & Sauerb. — 118, 205, 234, 256

Hypnum — 179, 216, 248, 364
Hypnum cupressiforme Hedw. — 205, 254, 362
Hypnum curvifolium Hedw. — 5, 31, 51, 53, 54, 55, 128, 139, 140, 144, 181, 209, 211, 241, 256, 271, 342, 356, 362, 375, 387
Hypnum fertile Sendtn. — 5
Hypnum imponens Hedw. — 5, 31, 32, 33, 35, 53, 54, 55, 61, 139, 205, 209, 211, 269, 271, 272, 280, 307, 354, 362, 383
Hypnum lindbergii Mitt. — 5, 28, 31, 51, 118, 128, 139, 143, 179, 205, 209, 211, 217, 218, 234, 256, 261, 319, 321, 339, 362, 387
Hypnum pallescens (Hedw.) P.-Beauv. — 5, 31, 139, 179, 205, 211, 271, 342, 362
Hypnum pratense Koch & Brid. — 5, 29, 174, 193, 205, 269
Hypnum subimponens Lesq. — 139, 205

Isopterygiopsis muelleriana (Schimp.) Iwats. — 90, 117, 118, 205, 234, 254, 255, 256, 257, 319, 321, 362, 374, 375
Isopterygium distichaceum (Mitt.) Jaeg. & Sauerb. — 3, 90, 173, 174, 175, 255, 256, 257
Isopterygium elegans (Brid.) Lindb. — 139, 171, 173, 175, 194, 205, 255, 256, 281, 328, 362, 372
Isopterygium pulchellum (Hedw.) Jaeg. & Sauerb. — 224, 225
Isopterygium tenerum (Sw.) Mitt. — 48, 55, 61, 122, 139, 140, 165, 209, 238, 256, 342, 362, 383

Leptobryum pyriforme (Hedw.) Wils. — 28, 31, 32, 33, 53, 55, 128, 139, 205, 209, 211, 234, 251, 307, 342, 362, 372, 383, 387, 388

Leskea — 184
Leskea australis Sharp — 205
Leskea gracilescens Hedw. — 31, 32, 33, 51, 61, 118, 139, 140, 170, 181, 186, 205, 209, 211, 224, 225, 226, 231, 234, 241, 251, 256, 271, 272, 304, 319, 321, 328, 342, 344, 346, 387, 388
Leskea obscura Hedw. — 18, 31, 55, 118, 128, 139, 140, 143, 205, 209, 211, 256, 271, 319, 321, 339, 362, 383
Leskea polycarpa Hedw. — 31, 48, 53, 54, 55, 118, 122, 128, 139, 140, 205, 209, 211, 234, 255, 256, 257, 269, 271, 355, 356, 362, 383, 384

Leskeella nervosa (Brid.) Loeske — 122, 198, 205, 229

Leucobryum — 331, 366
Leucobryum albidum (Brid. *ex* P.-Beauv.) Lindb. — 139, 169, 205, 211, 294, 296, 328, 372, 383
Leucobryum glaucum (Hedw.) Ångstr. *ex* Fr. — 31, 32, 33, 51, 54, 55, 61, 118, 122, 139, 140, 143, 144, 164, 165, 169, 193, 204, 205, 209, 211, 222, 224, 225, 234, 235, 238, 241, 256, 266, 272, 296, 304, 307, 310, 321, 328, 338, 339, 346, 354, 355, 356, 362, 373, 374, 375, 376, 380, 382, 383, 387

Leucodon — 184
Leucodon brachypus Brid. — 31, 174, 362
var. *andrewsianus* Crum & Anders. — 48, 140, 205, 211, 271
var. *brachypus* — 205, 271
Leucodon julaceus (Hedw.) Sull. — 31, 32, 33, 55, 53, 54, 55, 139, 140, 209, 211, 241, 271, 319, 321, 354, 356, 362, 383, 387

Lindbergia brachyptera (Mitt.) Kindb. — 31, 32, 33, 44, 48, 51, 55, 83, 133, 175, 205, 211, 234, 252, 255, 257, 271, 334, 346, 383, 384

Meesia longiseta Hedw. — 90, 134, 139, 194, 205

Micromitrium austinii Aust. — 3, 76, 90

Mnium — 96, 179, 331, 347, 367
Mnium affine Bland. *ex* Funck — 31, 32, 55, 139, 144, 165, 209, 238, 269, 271, 304, 307, 319, 328, 346, 354, 355, 356, 362, 383
var. *ciliare* C.M. — 33, 51, 61, 90, 118, 122, 140, 181, 190, 191, 205, 211, 234, 235, 241, 256, 372
var. *rugicum* (Laur.) BSG — 31, 32, 33, 51, 90, 190, 191, 211, 215, 234, 259, 260, 261, 319, 321
Mnium cuspidatum Hedw. — 7, 28, 31, 32, 33, 35, 48, 49, 51, 52, 53, 54, 61, 118, 122, 128, 138, 139, 140, 143, 144, 155, 162, 164, 165, 169, 170, 181, 186, 204, 205, 211, 224, 225, 226, 231, 234, 235, 238, 241, 242, 251, 256, 259, 260, 261, 266, 269, 270, 271, 294, 304, 307, 319, 321, 328, 338, 339, 342, 344, 346, 354, 355, 356, 362, 383, 384, 387, 388
Mnium drummondii Bruch & Schimp. — 48, 205, 229, 231, 342, 384
Mnium hornum Hedw. — 90, 205, 224, 225, 253, 255, 257, 362
Mnium longirostrum Brid. — 48, 139, 140, 143, 205, 209, 256, 257, 355
Mnium marginatum (With.) Brid. *ex* P.-Beauv. — 28, 31, 139, 165, 209, 211, 234, 238, 255, 256, 257, 269, 362, 383
Mnium medium BSG — 139, 190, 191, 205, 217, 218, 226, 266, 346, 355, 362
Mnium punctatum Hedw. — 31, 48, 139, 144, 165, 204, 238, 241, 256, 307, 321, 328, 355, 356, 362, 372, 383, 384, 387
var. *elatum* Schimp. — 140, 205
var. *punctatum* — 61, 192, 205, 211
Mnium spinulosum Hedw. — 31, 48, 205, 211, 224, 225, 356
Mnium stellare Hedw. — 48, 139, 205, 211, 224, 225, 255, 256, 257, 319, 383, 384
Mnium thomsonii Schimp. — 205, 234, 253

Myurella sibirica (C.M.) Reim. — 52, 53, 54, 205

Neckera pennata Hedw. — 139, 205

Orthotrichum affine Brid. — 362
Orthotrichum anomalum Hedw. — 139, 174, 181, 205, 234, 359, 383
Orthotrichum obtusifolium Brid. — 387
Orthotrichum ohioense Sull. & Lesq. *ex* Aust. — 31, 51, 90, 139, 143, 271, 281, 304, 319, 321, 344, 359, 362
Orthotrichum pumilum Sw. — 31, 32, 33, 48, 51, 88, 139, 181, 186,

194, 197, 205, 209, 234, 252, 271, 272, 319, 321, 342, 344, 355, 356, 359, 362
Orthotrichum pusillum Mitt. — 33, 88, 118, 134, 137, 144, 181, 205, 209, 211, 241, 256, 304, 319, 321, 344, 359, 362, 387
Orthotrichum rupestre Schleich. *ex* Schwaegr. — 269
Orthotrichum sordidum Sull. & Lesq. *ex* Aust. — 342
Orthotrichum speciosum Nees *ex* Sturm — 43, 56, 269
Orthotrichum stellatum Brid. — 118, 205, 234, 359
Orthotrichum strangulatum P.-Beauv. — 24, 31, 33, 53, 54, 55, 118, 139, 211, 234, 238, 241, 242, 257, 307, 354, 355, 359, 383, 384

Phascum cuspidatum Hedw. — 55, 63, 64, 118, 139, 181, 205, 209, 211, 212, 234, 252, 304, 383
Phascum floerkeanum Web. & Mohr — 139, 197, 205

Philonotis fontana (Hedw.) Brid. — 32, 139, 140, 209, 241, 266, 339, 383
var. *caespitosa* (Jur.) Schimp. — 205, 269
var. *fontana* — 33, 205, 256, 389
Philonotis longiseta (Mx.) Britt. — 139, 205, 383
Philonotis marchica (Hedw.) Brid. — 118, 134, 139, 205, 209, 234, 383, 389
Philonotis muhlenbergii (Schwaegr.) Brid. — 55, 139, 205

Physcomitrella patens (Hedw.) BSG — 139, 205, 234, 336, 342

Physcomitrium hookeri Hampe — 281
Physcomitrium immersum Sull. — 118, 139, 205, 234, 252, 383
Physcomitrium pyriforme (Hedw.) Hampe — 15, 28, 31, 32, 33, 48, 51, 52, 53, 54, 55, 57, 87, 118, 122, 128, 134, 139, 140, 143, 165, 170, 181, 186, 197, 205, 209, 211, 225, 226, 229, 231, 234, 238, 241, 242, 251, 252, 257, 267, 269, 304, 319, 321, 338, 339, 342, 344, 346, 354, 355, 356, 362, 363, 383, 384, 387, 388

Plagiopus oederiana (Sw.) Limpr. — 134, 183, 205

Plagiothecium cavifolium (Brid.) Iwats. — 31, 51, 118, 139, 171, 173, 175, 181, 194, 205, 209, 211, 216, 234, 241, 253, 256, 259, 260, 261, 269, 356, 362, 372
Plagiothecium denticulatum (Hedw.) BSG — 31, 32, 33, 48, 85, 118, 128, 139, 144, 171, 173, 175, 181, 194, 205, 209, 211, 224, 225, 234, 255, 256, 257, 271, 307, 319, 321, 339, 342, 356, 362, 384

Platydicta — 32
Platydicta confervoides (Brid.) Crum — 31, 118, 139, 140, 143, 205, 211, 255, 256, 257, 304, 328, 346, 362
Platydicta jungermannioides (Brid.) Crum — 205, 211
Platydicta minutissimum (Sull. & Lesq. *ex* Sull.) Crum — 90, 133, 183, 197
Platydicta subtile (Hedw.) Crum — 48, 85, 90, 91, 133, 139, 174, 179, 183, 205, 234, 266, 304, 384

Platygyrium repens (Brid.) BSG — 28, 31, 32, 33, 48, 51, 53, 54, 55, 61, 122, 139, 140, 143, 144, 181, 186, 205, 209, 210, 229, 234, 241, 242, 256, 266, 271, 272, 304, 307, 319, 321, 339, 342, 344, 354, 355, 356, 362, 374, 375, 383, 384, 387

Pleuridium subulatum (Hedw.) Rabenh. — 31, 55, 60, 118, 139, 144, 184, 205, 209, 211, 223, 234, 255, 256, 257, 267, 269, 319, 321, 355, 362, 383
Pleuridium sullivantii Aust. — 144, 205, 362

Pleurozium schreberi (Brid.) Mitt. — 28, 31, 32, 33, 35, 51, 53, 54, 55, 144, 205, 209, 211, 224, 225, 338, 339, 354, 356, 362, 374, 383, 387

Pogonatum — 313
Pogonatum brachyphyllum (Michx.) P.-Beauv. — 90, 118, 144, 205, 234, 241, 362
Pogonatum pensilvanicum (Hedw.) P.-Beauv. — 31, 32, 33, 53, 54, 55, 139, 144, 204, 205, 211, 234, 266, 307, 319, 321, 356, 362, 383, 387

Pohlia annotina (Hedw.) Lindb. var. *decipens* Loeske — 205, 342
Pohlia atropurpurea (Wahlenb.) H. Lindb. — 55, 139, 197, 205, 383
Pohlia elongata Hedw. — 204
Pohlia lescuriana (Sull.) Grout — 139
Pohlia melanodon (Brid.) Shaw — 134, 183, 205, 209, 301, 302
Pohlia nutans (Hedw.) Lindb. — 31, 32, 33, 51, 55, 118, 128, 138, 139, 140, 181, 205, 211, 224, 225, 234, 235, 241, 251, 256, 259, 260, 271, 272, 301, 302, 307, 319, 321, 355, 356, 362, 372, 383, 387, 388
Pohlia proligera (Kindb. *ex* Limpr.) Lindb. *ex* Arn. — 299, 300, 301, 302
Pohlia wahlenbergii (Web. & Mohr) Andr. — 31, 32, 33, 51, 55, 118, 165, 181, 209, 211, 234, 238, 256, 301, 302, 319, 320, 321, 344, 356, 383

Polytrichum — 51, 74, 78, 95, 112, 114, 331, 364, 366
Polytrichum commune Hedw. — 17, 31, 33, 53, 54, 55, 77, 96, 111, 113, 118, 140, 144, 169, 181, 184, 224, 225, 234, 241, 251, 256, 259, 260, 261, 269, 304, 307, 309, 322, 338, 339, 340, 346, 347, 354, 356, 357, 361, 362, 373, 383, 384, 388
var. *commune* — 19, 205, 211, 256
var. *perigonale* (Michx.) Hampe — 205, 339
Polytrichum formosum Hedw. — 139, 205, 209, 362, 383
Polytrichum juniperinum Hedw. — 31, 33, 55, 118, 121, 122, 125, 127, 128, 139, 150, 209, 211, 224, 225, 234, 240, 241, 242, 257, 266, 304, 346, 355, 356, 362, 380, 382, 383, 384, 387
Polytrichum longisetum Brid. — 174, 205, 261
Polytrichum ohioense Ren. & Card. — 3, 19, 31, 32, 33, 35, 51, 61, 128, 139, 140, 184, 204, 205, 209, 211, 224, 225, 234, 238, 241, 256, 266, 269, 294, 319, 321, 356, 362, 372, 374, 375, 376, 387
Polytrichum pallidisetum Funck — 163
Polytrichum piliferum Hedw. — 31, 48, 121, 139, 205, 211, 224, 225, 362, 375
Polytrichum strictum Brid. — 85, 90, 139, 158, 159, 174, 205

Pottia davalliana (Sm. *ex* Drake) C. Jens. — 342
Pottia truncata (Hedw.) Fürnr. — 118, 122, 205, 209, 224, 225, 363

Pterigynandrum filiforme Hedw. — 139, 205
Pterygoneuron subsessile (Brid.) Jur. — 90, 97, 117, 135, 139, 180, 197, 205, 252, 327, 363, 377, 383

Ptilium crista-castrensis (Hedw.) De Not. — 55, 139, 205, 211, 383

Ptychomitrium drummondii (Wils.) Sull. — 139, 205, 252, 255, 256, 257, 383
Ptychomitrium incurvum (Schwaegr.) Spruce — 140, 144, 205, 256, 362

Pylaisiella intricata (Hedw.) Grout — 52, 53, 54, 55, 139, 205, 209, 242, 269, 346, 354, 383
Pylaisiella polyantha (Hedw.) Grout — 55, 106, 130, 131, 133, 139, 183, 205, 383 (most Illinois reports are probably referable to *P. selwynii*)
Pylaisiella selwynii (Kindb.) Crum, Steere & Anders. — 48, 51, 139, 205, 209, 211, 224, 225, 256, 304, 319, 320, 321, 322, 323, 324, 346, 362

Racomitrium heterostichum (Hedw.) Brid. — 140 (probably based on a misdetermined specimen)
Rhabdoweisia crispata (With.) Lindb. — 256 (undoubtedly a misdetermination)
Rhodobryum roseum (Hedw.) Limpr. — 28, 31, 32, 33, 48, 51, 53, 54, 55, 118, 122, 139, 144, 153, 205, 211, 224, 225, 234, 256, 266, 269, 271, 304, 319, 321, 338, 354, 355, 356, 362, 383
Rhynchostegium serrulatum (Hedw.) Jaeg. & Sauerb. — 22, 31, 32, 33, 51, 52, 53, 54, 55, 118, 122, 134, 139, 143, 170, 181, 186, 205, 209, 211, 224, 225, 234, 251, 256, 266, 269, 271, 304, 319, 321, 342, 344, 346, 354, 355, 356, 362, 374, 375, 383, 384, 387, 388
Rhytidiadelphus triquetrus (Hedw.) Warnst. — 55, 62, 139, 205, 224, 338, 339, 383
Rhytidium rugosum (Hedw.) Kindb. — 205, 384

Schwetschkeopsis fabronia (Schwaegr.) Broth. — 48, 139, 205, 209, 254, 256, 281, 383, 384
Sciaromium lescurii (Sull.) Broth. — 65, 254, 255, 256, 257
Scopelophila ligulata (Spruce) Spruce — 3, 90, 185, 205, 255, 256, 257, 390

Scorpidium scorpioides (Hedw.) Limpr. — 179, 208
**Scorpidium turgescens* (T. Jens.) Loeske — 179, 217, 218
Sematophyllum adnatum (Michx.) Brid. — 118, 139, 143, 205, 234, 383
Sematophyllum demissum (Wils.) Mitt. — 31, 165, 181, 205, 211, 238, 253, 328, 356, 372, 387
Sematophyllum marylandicum (C.M.) Britt. — 90, 254, 255, 256, 257
Sphagnum — 29, 30, 33, 77, 95, 96, 98, 99, 109, 110, 112, 113, 157, 158, 177, 184, 221, 246, 331, 338, 356, 361, 364, 365, 366, 367, 373
Sphagnum capillifolium (Ehrh.) Hedw. — 20, 62, 159, 177, 193, 318, 368, 369
var. *capillifolium* — 10, 12, 205, 211, 315
var. *tenellum* (Schimp.) Crum — 9, 10, 12, 159, 205, 234, 315
Sphagnum centrale C. Jens. *ex* Arn. & C. Jens. — 12, 86, 90, 138, 205, 233
Sphagnum compactum DC. *ex* Lam. & DC. — 6, 16, 17, 20, 62, 144, 179, 205, 246, 251, 255, 256, 257, 310, 315, 362, 388
Sphagnum cuspidatum Ehrh. *ex* Hoffm. — 256, 315
var. *cuspidatum* — 12, 205, 255, 257
var. *serrulatum* (Schlieph.) Schlieph. — 12
Sphagnum fimbriatum Wils. *ex* J. Hook. — 12, 68, 205, 235, 318
Sphagnum fuscum (Schimp.) Klinggr. — 12, 159, 205, 315
Sphagnum girgensohnii Russ. — 8, 12, 61, 174, 205, 211, 266, 315
Sphagnum henryense Warnst. — 11, 72
Sphagnum imbricatum Hornsch. *ex* Russ. — 86, 90, 205, 255, 256, 257, 294, 315
Sphagnum magellanicum Brid. — 96, 98, 205, 259, 260, 315
Sphagnum palustre L. — 31, 61, 169, 193, 205, 211, 259, 260, 307, 315, 374, 375
Sphagnum papillosum Lindb. — 86, 90, 205
Sphagnum recurvum P.-Beauv. — 72, 259, 260, 303, 339, 373
var. *recurvum* — 12, 205, 315
var. *tenue* Klinggr. — 12, 205, 315
Sphagnum russowii Warnst. — 90, 256, 257
Sphagnum squarrosum Crome — 8, 12, 31, 98, 174, 205, 211, 259, 260, 315, 374, 375
Sphagnum subsecundum Nees *ex* Sturm — 256, 315, 339
var. *contortum* (Schultz) Hüb. — 12, 86, 90
var. *platyphyllum* (Lindb. *ex* Braithw.) Card. — 12
var. *rufescens* (Nees, Hornsch. & Sturm) Hüb. — 8, 12, 205
var. *subsecundum* — 12, 205
Sphagnum tenerum Sull. & Lesq. — 31, 205, 211, 255, 256, 257, 310, 315, 375
Sphagnum teres (Schimp.) Ångstr. *ex* C. Hartm. — 8, 12, 86, 90, 98, 174, 179, 205, 211, 234, 259, 260, 315
Sphagnum warnstorfii Russ. — 9, 12, 86, 159, 205, 315
Stokesiella praelonga (Hedw.) Robins. — 269
Syrrhopodon texanus Sull. — 90, 205, 210, 241, 253, 255, 256, 257, 258
Taxiphyllum deplanatum (Bruch & Schimp. *ex* Schimp.) Fl. — 28, 31, 33, 51, 54, 55, 118, 139, 171, 173, 181, 205, 209, 211, 234, 256, 304, 307, 319, 321, 338, 339, 383
Taxiphyllum taxirameum (Mitt.) Fl. — 31, 51, 118, 165, 173, 175, 181, 205, 209, 211, 234, 238, 241, 256, 319, 321, 342, 357
Tetraphis pellucida Hedw. — 31, 32, 33, 35, 61, 139, 144, 165, 169, 204, 205, 211, 222, 224, 225, 238, 241, 255, 256, 257, 259, 260, 261, 266, 271, 280, 307, 319, 321, 328, 356, 362, 372, 374, 383, 387
Thamnobryum alleghaniense (C.M.) Nieuwl. — 81, 90, 139, 140, 144, 255, 256, 257, 308, 362, 383
Thelia asprella Sull. — 23, 31, 32, 33, 48, 53, 54, 55, 139, 205, 210, 234, 256, 269, 271, 304, 319, 321, 339, 346, 355, 356, 362, 383
Thelia hirtella (Hedw.) Sull. — 48, 55, 139, 140, 205, 241, 256, 281, 354, 362, 383, 384
Thelia lescurii Sull. — 54, 55, 118, 139, 205, 224, 225, 234, 269, 338, 342, 346, 362, 383
Thuidium — 184, 331
Thuidium abietinum (Hedw.) BSG — 31, 51, 179, 205, 211, 339, 362
Thuidium delicatulum (Hedw.) BSG — 28, 31, 32, 33, 48, 51, 52, 53, 55, 61, 118, 122, 128, 139, 140, 143, 144, 164, 165, 169, 179, 193, 194, 209, 211, 222, 234, 235, 241, 259, 260, 261, 271, 294, 304, 307, 319, 321, 322, 328, 338, 339, 342, 354, 355, 356, 362, 372, 383, 384, 387
var. *delicatulum* — 205, 256
var. *radicans* (Kindb.) Crum, Steere & Anders. — 205, 238, 362
Thuidium minutulum (Hedw.) BSG — 53, 54, 55, 139, 140, 205, 256, 296, 383
Thuidium pygmaeum BSG — 31, 48, 122, 140, 205, 211, 212, 256, 356, 362, 384
Thuidium recognitum (Hedw.) Lindb. — 31, 32, 33, 34, 48, 118, 139, 140, 181, 209, 211, 224, 225, 234, 235, 256, 261, 266, 269, 271, 304, 305, 319, 321, 339, 362, 374, 387
Thuidium scitum (P.-Beauv.) Aust. — 139, 205, 383
Timmia megapolitana Hedw. var. *megapolitana* — 31, 48, 50, 52, 53, 54, 55, 90, 118, 139, 174, 205, 211, 224, 225, 234, 242, 255, 257, 270, 271, 346, 354, 383
Tomenthypnum nitens (Hedw.) Loeske — 139, 179
Tortella fragilis (Drumm.) Limpr. — 179
Tortella humilis (Hedw.) Jenn. — 31, 32, 33, 48, 53, 54, 55, 118, 139, 140, 144, 165, 169, 205, 209, 211, 234, 238, 241, 256, 269, 271, 319, 321, 339, 342, 344, 355, 362, 383, 384
Tortella tortuosa (Hedw.) Limpr. — 174, 339
Tortula — 48
Tortula mucronifolia Schwaegr. — 31, 117, 139, 205, 211, 339, 387
Tortula muralis Hedw. — 143, 342
Tortula pagorum (Milde) De Not. — 2, 90, 205, 253, 256
Tortula papillosa Wils. *ex* Spruce — 91, 97, 135, 139, 174, 205, 279, 326, 383
Tortula ruralis (Hedw.) Gaertn., Meyer & Scherb. — 32, 33, 205, 224, 225, 342
Tortula subulata Hedw. — 139, 205, 383
Trematodon longicollis Michx. — 3, 90, 139, 205, 252, 255, 256, 257, 383
Ulota crispa (Hedw.) Brid. — 3, 32, 33, 55, 90, 139, 205, 319, 320, 321, 383
Weissia controversa Hedw. — 31, 32, 33, 39, 48, 51, 52, 53, 54, 55, 118, 122, 140, 144, 151, 165, 181, 196, 197, 204, 205, 209, 211, 226, 234, 238, 241, 251, 252, 256, 269, 304, 319, 321, 342, 346, 354, 355, 356, 362, 380, 383, 387, 388
Weissia hedwigii Crum — 319

LIST OF SYNONYMS FOR BRYOPHYTES REPORTED FROM ILLINOIS

The current orthography or nomenclature is on the right, although some taxa are treated *sensu lato* (*s.l.*).

Anthocerotae and Hepaticae

Aneura latifolia = *Riccardia latifrons*
Aneura latifrons = *Riccardia latifrons*
Aneura multifida = *Riccardia multifida*
Aneura palmata = *Riccardia palmata*
Aneura sessilis = *Aneura pinguis*
Anthoceros carolinianus = *Phaeoceros laevis*
Anthoceros crispulus = *Anthoceros punctatus*
Anthoceros laciniatus = *Phaeoceros laevis*
Anthoceros laevis = *Phaeoceros laevis*
Anthoceros laevis var. *major* = *Phaeoceros laevis*

Anthoceros orbicularis = *Notothylas orbicularis*
Aplozia caespiticia = *Jungermannia caespiticia*
Aplozia lanceolata = *Jungermannia leiantha*
Asterella hemisphaerica = *Reboulia hemisphaerica*

Blepharozia ciliaris = *Ptilidium ciliare*

Calypogea = *Calypogeja*
Calypogeia arguta = *Calypogeja sullivantii*
Calypogeja trichomanes = *Calypogeja muelleriana*
Calypogeja trichomanis = *Calypogeja muelleriana*
Cephalozia albescens = *Pleuroclada albescens*
Cephalozia curvifolia = *Nowellia curvifolia*
Cephalozia divaricata = *Cephaloziella divaricata*
Cephalozia media = *Cephalozia lunulifolia*
Cephalozia multifida = *Cephalozia connivens*
Cephalozia multiflora = *Cephalozia connivens*
Cephalozia sullivantii = *Cephaloziella rubella s.l.*
Cephaloziella byssacea = *Cephaloziella divaricata*
Cephaloziella elachista var. *angustiloba* = *Cephaloziella elachista*
Cephaloziella myriantha = *Cephaloziella rubella s.l.*
Cephaloziella rubella var. *sullivantii* = *Cephaloziella rubella s.l.*
Cephaloziella spinigera = *Cephaloziella elachista*
Cephaloziella subdentata = *Cephaloziella elachista*
Cephaloziella sullivantii = *Cephaloziella rubella s.l.*
Chiloscyphus adscendens = *Chiloscyphus pallescens*
Chiloscyphus fragilis = *Chiloscyphus pallescens* var. *fragilis*
Clevea hyalina = *Athalamia hyalina*
Coleochila taylori = *Mylia taylori*
Conocephalus conicus = *Conocephalum conicum*

Duvalia barbifrons = *Mannia fragrans*

Eucalyx hyalina = *Jungermannia hyalina*

Fegetella conica = *Conocephalum conicum*
Fimbriaria elegans — 102, 269
Fimbriaria tenella = *Asterella tenella*
Frullania aeolotis = *Frullania riparia*
Frullania asagrayana = *Frullania tamarisci* var. *asagrayana*
Frullania grayana = *Frullania tamarisci* var. *asagrayana*
Frullania squarrosa = *Frullania ericoides*
Frullania virginica = *Frullania eboracensis*

Geocalyx graveolus = *Geocalyx graveolens*
Grimaldia barbifrons = *Mannia fragrans*
Grimaldia fragrans = *Mannia fragrans*
Grimaldia rupestris = *Mannia triandra*

Jungermannia bicuspidata = *Cephalozia bicuspidata*
Jungermannia curvifolia = *Nowellia curvifolia*
Jungermannia divaricata = *Cephaloziella divaricata*
Jungermannia lanceolata = *Jungermannia leiantha*
Jungermannia schraderi = *Jamesoniella autumnalis*
Jungermannia sullivantiae = *Cephaloziella rubella*

Lejeunea calcarea = *Cololejeunea biddlecomiae*
Lepidozia sylvatica = *Kurzia sylvatica*
Leptoscyphus taylori = *Mylia taylorii*
Lophocolea alata = *Lophocolea cuspidata* var. *alata*
Lophocolea bicuspidata = *Lophocolea cuspidata*
Lophocolea cuspidata fo. *alata* = *Lophocolea cuspidata* var. *alata*
Lophocolea hallii = *Lophocolea heterophylla*
Lophocolea macounii = *Lophocolea heterophylla*
Lunularia vulgaris = *Lunularia cruciata*

Madotheca platyphylla = *Porella platyphylla*
Madotheca porella = *Porella pinnata*
Madotheca thuja — 102, 269 (= *Porella thuja* but North American reports are based on misdeterminations)
Mannia rupestris = *Mannia triandra*
Marsupella sullivantii — 308, 341 (= *M. sphacelata* for Illinois reports, Crandall-Stotler & Renzaglia 1984)
Microlepidozia sylvatica = *Kurzia sylvatica*

Nardia crenulata = *Jungermannia gracillima*
Nardia hyalina = *Jungermannia hyalina*
Neesiella rupestris = *Mannia triandra*
Notothylas valvata = *Notothylas orbicularis*

Odontoschisma sphagni = *Odontoschisma denudatum*

Phaeoceros crispulus = *Anthoceros punctatus*
Plagiochila asplenioides = *Plagiochila porelloides*
Plagiochila interruptum = *Pedinophyllum interruptum*
Plagiochila macrostoma = *Pedinophyllum interruptum*
Plectocolea crenulata = *Jungermannia gracillima*
Plectocolea crenuliformis = *Jungermannia crenuliformis*
Plectocolea fossombronioides = *Jungermannia fossombronioides*
Plectocolea hyalina = *Jungermannia hyalina*
Porella thuja = (misdeterminations North American specimens)
Preissia commutata = *Preissia quadrata*

Riccardia pinguis = *Aneura pinguis*
Riccia arvensis = *Riccia bifurca*
Riccia crystallina = *Riccia cavernosa*
Riccia frostii var. *major* = *Riccia frostii*
Riccia lescuriana = *Riccia beyrichiana*
Riccia lutescens = *Ricciocarpos natans*
Riccia minima = *Riccia nigrella*
Riccia natans = *Ricciocarpos natans*
Riccia velutina = *Riccia cavernosa*
Ricciella fluitans = *Riccia fluitans*
Ricciella fluitans var. *canaliculata* = *Riccia fluitans*
Ricciella fluitans var. *sullivanti* = *Riccia sullivantii*
Ricciella sullivantii = *Riccia sullivantii*
Ricciocarpus = *Ricciocarpos*

Solenostoma crenulata = *Jungermannia gracillima*
Solenostoma crenuliformis = *Jungermannia crenuliformis*
Solenostoma hyalinum = *Jungermannia hyalina*
Solenostoma pumillus = *Jungermannia pumila*

Tricholea tomentella = *Trichocolea tomentella*

Musci (including sphagna)

Acaulon floerkeanum = *Phascum floerkeanum*
Acaulon rubrum = *Acaulon muticum*
Acaulon wolfii — 139, 383
Aloina aloides = *Aloina rigida*
Aloina aloides var. *ambigua* = *Aloina aloides*
Aloina ericaecolia = *Phascum floerkeanum*
Amblystegiella adnata = *Homomallium adnatum*
Amblystegiella conferva = *Platydictya confervoides*
Amblystegiella minutissima = *Platydictya minutissima*
Amblystegiella subtilis = *Platydictya subtile*
Amblystegium brevipes = *Amblystegium riparium*
Amblystegium chrysophyllum = *Campylium chrysophyllum*
Amblystegium compactum = *Conardia compactum*
Amblystegium confervoides = *Platydictya confervoides*
Amblystegium exannulatus = *Drepanocladus exannulatus*
Amblystegium filicinum = *Cratoneuron filicinum*
Amblystegium fluitans var. *plumosum* = *Drepanocladus fluitans*
Amblystegium fluviatile var. *orthocladon* = *Amblystegium fluviatile*
Amblystegium hispidulum = *Campylium hispidulum*
Amblystegium hygrophyllum = *Campylium radicale*
Amblystegium irriguum = *Amblystegium tenax*
Amblystegium irriguum spinifolium = *Amblystegium tenax s.l.*
Amblystegium jungermannioides = *Platydictya minutissimum*
Amblystegium juratzkanum = *Amblystegium serpens* var. *juratzkanum*
Amblystegium kochii = *Amblystegium humile*
Amblystegium laxirete = *Amblystegium riparium*
Amblystegium minutissimum = *Platydictya minutissimum*
Amblystegium orthocladon = *Amblystegium tenax* var. *tenax*
Amblystegium radicale = *Campylium radicale*
Amblystegium riparium var. *abbreviatum* = *Amblystegium riparium*
Amblystegium riparium var. *cariosum* = *Amblystegium riparium*
Amblystegium riparium var. *flaccidum* = *Amblystegium riparium*
Amblystegium riparium var. *fluitans* = *Amblystegium riparium*
Amblystegium riparium var. *kochii* = *Amblystegium riparium*
Amblystegium riparium var. *trichopodium* = *Amblystegium riparium*
Amblystegium serpens var. *hygrophyllum* = *Campylium radicale*
Amblystegium serpens var. *radicale* = *Campylium radicale*
Amblystegium serpens var. *tenue* = *Amblystegium serpens*
Amblystegium subtile = *Platydictya subtile*
Amblystegium trichopodium = *Amblystegium humile*
Amblystegium varium var. *lancifolium* = *Amblystegium varium*

Amblystegium varium var. *ovatum* = *Amblystegium varium*
Amblystegium varium var. *parvulum* = *Amblystegium varium*
Angstroemia varia = *Dicranella varia*
Anomodon apiculatus = *Anomodon rugelii*
Anomodon obtusifolius = *Anomodon minor*
Anomodon tristis = *Haplohymenium triste*
Aphanorhegma serrata = *Aphanorrhegma serratum*
Aphanorrhegma patens = *Physcomitrella patens*
Astomum crispum = *Astomum muhlenbergianum*
Astomum nitidulum = *Astomum muhlenbergianum*
Astomum nitidulum var. *pygmaeum* = *Astomum muhlenbergianum*
Astomum sullivantii = *Astomum muhlenbergianum*
Atrichum altecristatum = *Atrichum undulatum* var. *altecristatum*
Atrichum angustatum var. *plurilamellatum* = *Atrichum angustatum*
Atrichum cylindricum = *Atrichum undulatum* var. *attenuatum*
Atrichum macmillanii = *Atrichum angustatum*
Atrichum oerstedianum = *Atrichum undulatum* var. *oerstedianum*
Atrichum undulatum var. *minus* = *Atrichum tenellum*
Aulacomnium palustre var. *polycephalum* = *Aulacomnium palustre*
Aulacomnium palustris = *Aulacomnium palustre*

Barbula acuminata = *Didymodon fallax* var. *fallax*
Barbula ambigua = *Phascum floerkeanum*
Barbula caespitosa = *Tortella humilis*
Barbula cruegeri = *Barbula cancellata*
Barbula fallax = *Didymodon fallax* var. *fallax*
Barbula papillosa = *Tortula papillosa*
Barbula rigida = *Aloina rigida*
Barbula subulata = *Tortula subulata*
Barbula unguiculata var. *apiculata* = *Barbula unguiculata*
Bartramia crispa = *Bartramia pomiformis*
Bartramia fontana = *Philonotis fontana*
Bartramia marchica = *Philonotis marchica*
Bartramia pomiformis var. *crispa* = *Bartramia pomiformis*
Bartramia pomiformis var. *elongata* = *Bartramia pomiformis*
Bartramia radicalis = *Philonotis longiseta*
Brachythecium acutum = *Brachythecium salebrosum*
Brachythecium cyrtophyllum = *Brachythecium acuminatum* var. *cyrtophyllum*
Brachythecium flagellare = *Brachythecium plumosum*
Brachythecium flexicaule = *Brachythecium calcareum*
Brachythecium laetum = *Brachythecium oxycladon*
Brachythecium novae-angliae = *Bryhnia novae-angliae*
Brachythecium oxycladon var. *dentatum* = *Brachythecium oxycladon*
Brachythecium pseudocollinum = *Brachythecium salebrosum*
Brachythecium rivulare var. *noveboracense* = *Brachythecium rivulare*
Brachythecium salebrosum var. *mildeanum* = *Brachythecium salebrosum*
Brachythecium serrulatum = *Rhynchostegium serrulatum*
Bruchia beyrichiana = *Bruchia flexuosa*
Bruchia brevicollis = *Bruchia flexuosa*
Bruchia curviseta = *Bruchia flexuosa*
Bruchia donnelli = *Bruchia flexuosa*
Bruchia hallii = *Bruchia flexuosa* (for Illinois reports)
Bruchia sullivantii = *Bruchia flexuosa*
Bruchia texana = *Bruchia flexuosa*
Bryum affine = *Bryum creberrimum*
Bryum albicans = *Pohlia wahlenbergii*
Bryum angusirete = *Bryum algovicum*
Bryum argenteum var. *lanatum* = *Bryum argenteum*
Bryum atropurpureum = *Pohlia atropurpurea*
Bryum bimum = *Bryum pseudotriquetrum*
Bryum caespitosum = *Bryum caespiticium*
Bryum cernuum = *Bryum uliginosum*
Bryum cirratum = *Bryum creberrimum*
Bryum cuspidatum = *Bryum creberrimum*
Bryum intermedium = *Bryum creberrimum*
Bryum lescurianum = *Pohlia lescuriana*
Bryum lisae var. *cuspidatum* = *Bryum creberrimum*
Bryum lonchocaulon = *Bryum creberrimum*
Bryum natans = *Pohlia nutans*
Bryum nutans = *Pohlia nutans*
Bryum obconicum = *Bryum capillare*
Bryum pendulum = *Bryum algovicum*
Bryum pyriforme = *Leptobryum pyriforme*
Bryum roseum = *Rhodobryum roseum*
Bryum taxifolius = *Fissidens taxifolius*
Bryum ventricosum = *Bryum pseudotriquetrum*
Bryum wahlenbergianumm = *Pohlia wahlenbergii*

Calliergon cuspidatum = *Calliergonella cuspidata*
Calliergon schreberi = *Pleurozium schreberi*
Calliergonella schreberi = *Pleurozium schreberi*
Camptothecium lutescens — 138 (= *Homalothecium fulgescens*, but the report is undoubtedly based on a misdetermination)
Camptothecium nitens = *Tomenthypnum nitens*
Campylium chrysophyllum var. *brevifolium* = *Campylium chrysophyllum*
Campylium hispidulum var. *sommerfeltii* = *Campylium hispidulum*
Campylopus flexuosus = *Campylopus tallulensis*
Campylopus leanus = *Brothera leana*
Catharinea angustata = *Atrichum angustatum*
Catharinea plurilamellata = *Atrichum angustatum*
Catharinea undulata = *Atrichum undulatum*
Catharinea undulata var. *atenuata* = *Atrichum undulatum* var. *attenuatum*
Chamberlainia acuminata = *Brachythecium acuminatum*
Chamberlainia acuminatum var. *rupincola* = *Brachythecium acuminatum* var. *cyrtophyllum*
Chamberlainia cyrtophylla = *Brachythecium acuminatum*
Cirriphyllum boscii = *Bryoandersonia illecebra*
Cirriphyllum illecebrum = *Bryoandersonia illeebra*
Climacium americanum var. *kindbergii* = *Climacium americanum*
Climacium kindbergii = *Climacium americanum*
Conomitrium hallianum = *Fissidens fontanus*
Conomitrium julianus = *Fissidens fontanus*
Cryphaea inundata = *Brachylema subulatum*
Ctenidium molluscum = *Ctenidium malacodes*
Cylindrothecium brevisetus = *Entodon brevisetus*
Cylindrothecium cladorrhizans = *Entodon cladorrhizans*
Cylindrothecium compressum = *Entodon compressus*
Cylindrothecium sedutrix = *Entodon seductrix*

Desmatodon arenaceous = *Desmatodon obtusifolius*
Desmatodon flavicans = *Desmatodon obtusifolius*
Dicranella debilis — 231 (= *Dicranella hilariana*, a tropical species surely not from Illinois)
Dicranella heteromalla var. *fitzgeraldii* = *Dicranella heteromalla*
Dicranella heteromalla var. *orthocarpa* = *Dicranella heteromalla*
Dicranella rubra = *Dicranella varia*
Dicranella varia var. *tenella* = *Dicranella varia*
Dicranoweisia cirrhata = *Dicranoweisia cirrata*
Dicranum alatum = *Dicranum scoparium*
Dicranum bergeri = *Dicranum undulatum*
Dicranum bonjeanii = *Dicranum scoparium*
Dicranum bonjeanii var. *alatum* = *Dicranum scoparium*
Dicranum heteromallum = *Dicranella heteromalla*
Dicranum leoparium var. *pallidum* = *Ditrichum pallidum*
Dicranum palustre = *Dicranum scoparium*
Dicranum rufescens = *Dicranella rufescens*
Dicranum rugosum = *Dicranum polysetum*
Dicranum sabuletorum = *Dicranum condensatum*
Dicranum scoparium var. *condensatum* = *Dicranum condensatum*
Dicranum scoparium var. *pallidum* = *Dicranum scoparium*
Dicranum spurium var. *condensatum* = *Dicranum condensatum*
Dicranum varium = *Dicranella varia*
Didymodon recurvirostris = *Bryoerythrophyllum recurvirostrum*
Didymodon rubellus = *Bryoerythrophyllum recurvirostrum*
Didymodon trifarius = *Didymodon rigidulus*
Discelium incarnata = *Discelium nudum*
Ditrichum tortile = *Ditrichum pusillum*
Drepanocladus aduncus f. *aquaticus* = *Drepanocladus aduncus*
Drepanocladus aduncus var. *attenuatus* = *Drepanocladus aduncus*
Drepanocladus aduncus var. *gracilescens* = *Drepanocladus aduncus* var. *polycarpus*
Drepanocladus aduncus var. *typicus* = *Drepanocladus aduncus* var. *aduncus*
Drepanocladus intermedius = *Drepanocladus revolvens*
Drepanocladus sendtneri = *Drepanocladus aduncus*
Drepanocladus wilsoni = *Drepanocladus aduncus* var. *aduncus*
Drummondia clavellata = *Drummondia prorepens*

Elodium paludosum = *Helodium paludosum*
Encalypta streptocarpa = *Encalypta procera*
Entodon challengeri = *Entodon compressus*
Entodon seductrix var. *lanceolata* = *Entodon seductrix*
Entosthodon neoscoticus = *Desmatodon randii*
Ephemerum crassinervium var. *papillosum* = *Ephemerum crassinervium*
Ephemerum spinulosum var. *hystrix* = *Ephemerum spinulosum*
Ephemerum spinulosum var. *texanum* = *Ephemerum crassinervium*
Eurhynchium novae-angliae = *Brhynia novae-angliae*
Eurhynchium praelongum = *Stokesiella praelongum*
Eurhynchium pulchellum var. *praecox* = *Eurhynchium pulchellum*
Eurhynchium pulchellum var. *robustum* = *Eurhynchium pulchellum*
Eurhynchium serrulatum = *Rhynchostegium serrulatum*
Eurhynchium strigosum = *Eurhynchium pulchellum*
Eurhynchium strigosum var. *robustum* = *Eurhynchium pulchellum*

Fabroleskea austinii = *Lindbergia brachyptera*
Fabronia octoblepharis = *Fabronia ciliaris*
Fabronia splachnoides = *Anacamptodon splachnoides*
Fissidens bryoides var. *inconstans* = *Fissidens bryoides*
Fissidens bryoides var. *incurvus* = *Fissidens bryoides*
Fissidens debilis = *Fissidens fontanus*
Fissidens decipiens = *Fissidens cristatus*
Fissidens exiguus = *Fissidens bryoides*
Fissidens hallianus = *Fissidens fontanus*
Fissidens inconstans = *Fissidens bryoides*
Fissidens incurvus = *Fissidens bryoides*
Fissidens incurvus var. *minutulus* = *Fissidens bryoides*
Fissidens julianus = *Fissidens fontanus*
Fissidens minutulum = *Fissidens bryoides*
Fissidens minutulus = *Fissidens bryoides*
Fissidens pusillus = *Fissidens bryoides*
Fissidens synoicus = *Fissidens bryoides*
Fissidens viridulus = *Fissidens bryoides*
Fissidens viridulus var. *brevifolius* = *Fissidens bryoides*
Fontinalis biformis = *Fontinalis sphagnifolia*
Fontinalis disticha = *Fontinalis sullivantii*
Fontinalis duriaei = *Fontinalis hypnoides*
Fontinalis hypnoides var. *duriaei* = *Fontinalis hypnoides*
Fontinalis lescurii = *Fontinalis novae-angliae*
Fontinalis novae-angliae var. *latifolia* = *Fontinalis novae-angliae*
Fontinalis umbackii = *Fontinalis missourica*
Forsstroemia trichomitria var. *immersus* = *Forsstroemia trichomitria*
Fumeria microstoma = *Funaria flavicans*
Funaria hygrometrica var. *calvescens* = *Funaria hygrometrica*
Funaria microstoma = *Funaria flavicans* (IL material, Crum & Anderson 1981)

Georgia pellucida = *Tetraphis pellucida*
Grimmia alpicola = *Grimmia rivularis*
Grimmia apocarpa var. *alpicola* = *Grimmia rivularis*
Grimmia apocarpa var. *stricta* = *Grimmia apocarpa* var. *gracilis*
Grimmia commutata = *Grimmia ovalis*
Grimmia conferta = *Grimmia rivularis*
Grimmia confertum = *Grimmia rivularis*
Grimmia controverta = *Grimmia rivularis*
Grimmia controverta var. *obtusifolia* = *Grimmia rivularis*
Grimmia convertum = *Grimmia rivularis*
Grimmia drummondii = *Ptychomitrium drummondii*
Grimmia ovata = *Grimmia affinis*
Gymnostomum acuminatum = *Physcomitrium pyriforme*
Gymnostomum calcareum = *Gymnostomum aeruginosum*
Gymnostomum curvirostre = *Gymnostomum recurvirostrum*
Gymnostomum immersum = *Physcomitrium immersum*
Gymnostomum recurvirostrum var. *latifolium* = *Gymnostomum recurvirostrum*
Gymnostomum rupestre = *Gymnostomum aeruginosum*

Harpidium aduncum = *Drepanocladus aduncus*
Hedwigia albicans = *Hedwigia ciliata*
Hedwigia ciliata var. *viridis* = *Hedwigia ciliata*
Helodium paludosum var. *elodioides* = *Helodium blandowii* var. *elodioides*
Heterophyllium haldanianum = *Callicladium haldanianum*
Homalothecium subcapillatum = *Homalotheciella subcapillata*
Homulothicium subcapillatum = *Homalotheciella subcapillata*
Hygroamblystegium fluviatile = *Amblystegium fluviatile*
Hygroamblystegium fluviatile fo. *brevifolium* = *Amblystegium fluviatile*
Hygroamblystegium fluviatile var. *orthocladon* = *Amblystegium tenax*
Hygroamblystegium fluviatile var. *ovatum* = *Amblystegium fluviatile*
Hygroamblystegium irriguum = *Amblystegium tenax*
Hygroamblystegium orthocladon = *Amblystegium tenax*
Hygroamblystegium tenax = *Amblystegium tenax*
Hylocomium triquetrum = *Rhytidiadelphus triquetrus*
Hymenostylium curvirostre = *Gymnostomum recurvirostrum*
Hyophila tortula = *Hyophila involuta*
Hypnum acuminatum = *Brachythecium acuminatum*
Hypnum adnatum = *Homomallium adnatum*
Hypnum aduncum gracilescens = *Drepanocladus aduncus* var. *polycarpus*
Hypnum acutum = *Brachythecium salebrosum*
Hypnum aduncum = *Drepanocladus aduncus*
Hypnum aduncus = *Drepanocladus aduncus*
Hypnum alleghaniense = *Thamnobryum alleghaniense*
Hypnum arcuatum = *Hypnum lindbergii*
Hypnum arcuatum var. *americanum* = *Hypnum lindbergii*
Hypnum boscii = *Bryoandersonia illecebra*
Hypnum chrysophyllum = *Campylium chrysophyllum*
Hypnum collinum = *Brachythecium collinum*
Hypnum confervoides = *Platydictya confervoides*
Hypnum convertum = *Pylaisiella polyantha*
Hypnum crista-castrensis = *Ptilium crista-castrensis*
Hypnum cuspidatum = *Calliergonella cuspidata*
Hypnum cylindrocarpum = *Brotherella tenuirostris*
Hypnum delicatulum = *Thuidium delicatulum*
Hypnum denticulatum = *Plagiothecium denticulatum*
Hypnum deplanatum = *Taxiphyllum deplanatum*
Hypnum dimorphum = *Heterocladium dimorphum*
Hypnum diversifolium = *Eurhynchium pulchellum*
Hypnum elegans = *Isoterygium elegans*
Hypnum exannulatus = *Drepanocladus exannulatus*
Hypnum fluitans = *Drepanocladus fluitans*
Hypnum fluviatile = *Amblystegium fluviatile*
Hypnum gracile = *Bryohaplocladium microphyllum* (or) *Myurella sibirica*
Hypnum haldanianum = *Callicladianum haldanianum*
Hypnum hians = *Eurhynchium hians*
Hypnum hispidulum = *Campylium hispidulum*
Hypnum laetum = *Brachythecium oxycladon*
Hypnum lutescens = *Camptothecium lutescens*
Hypnum micans var. *albulum* = *Isopterygium tenerum*
Hypnum microcarpon = *Sematophyllum adnatum*
Hypnum minutulum = *Thuidium minutulum*
Hypnum molluscum = *Ctenidium malacodes*
Hypnum nitens = *Tomenthypnum nitens*
Hypnum novae-angliae = *Brhynia novae-angliae*
Hypnum orthocladon = *Amblystegium tenax*
Hypnum oxycladon = *Brachythecium oxycladon*
Hypnum patientiae = *Hypnum lindbergii*
Hypnum polygamum = *Campylium polygamum*
Hypnum polymorphum = *Campylium chrysophyllum*
Hypnum radicale = *Campylium radicale*
Hypnum recognitum = *Thuidium recognitum*
Hypnum reptile = *Hypnum pallescens*
Hypnum riparium = *Amblystegium riparium*
Hypnum riparium var. *cariosum* = *Amblystegium riparium*
Hypnum rivulare = *Brachythecium rivulare*
Hypnum rostratum = *Anomodon rostratum*
Hypnum rutabulum = *Brachythecium rutabulum*
Hypnum salebrosum = *Brachythecium salebrosum*
Hypnum schreberi = *Pleurozium schreberi*
Hypnum serpens = *Amblystegium serpens*
Hypnum serpens var. *orthocladon* = *Amblystegium tenax*
Hypnum serpens var. *radicale* = *Campylium radicale*
Hypnum serratulum = *Rhynchostegium serrulatum*
Hypnum sommerfeldtii = *Campylium hispidulum*
Hypnum stellatum = *Campylium stellatum*
Hypnum strigosum = *Eurhynchium pulchellum*
Hypnum subtile = *Platydicta subtile*
Hypnum sullivantii = *Bryhnia graminicolor*

Hypnum tamariscinum = *Thuidium delicatulum*
Hypnum tenuirostris = *Brotherella tenuirostris*
Hypnum triquetrum = *Rhytidiadelphus triquetrus*

Isopterygium borrerianum = *Isopterygium elegans*
Isopterygium deplanatum = *Taxiphyllum deplanatum*
Isopterygium geophilum = *Taxiphyllum taxirameum*
Isopterygium micans = *Isopterygium tenerum*
Isopterygium taxirameum = *Taxiphyllum taxirameum*
Isopterygium turfaceum = *Herzogiella turfacea*

Leptobryum nutans = *Leptobryum pyriforme*
Leptodictyium brevipes = *Amblystegium riparium*
Leptodictyium laxirete = *Amblystegium riparium*
Leptodictyium riparium = *Amblystegium riparium*
Leptodictyium riparium fo. *flaccida* = *Amblystegium riparium*
Leptodictyium trichopodium = *Amblystegium humile*
Leptodictyium trichopodium var. *kochii* = *Amblystegium humile*
Leptodon ohioensis = *Forsstroemia ohioensis*
Leptodon trichomitrion = *Forsstroemia trichomitria*
Leptodon trichomitrion var. *immersum* = *Forsstroemia trichomitria*
Leptotrichum pallidum = *Ditrichum pallidum*
Leptotrichum tortile = *Ditrichum pusillum*
Leskea arenicola = *Leskea polycarpa*
Leskea austinii = *Lindbergia brachyptera*
Leskea denticulata = *Schwetschkeopsis fabronia*
Leskea nervosa = *Leskeella nervosa*
Leskea polyantha = *Pylaisiella polyantha*
Leskea polycarpa var. *paludosa* = *Leskea polycarpa*
Leskea rostrata = *Anomodon rostratus*
Leskea tristis = *Haplohymenium triste*
Leskea vitriculosus = *Anomodon viticulosus*
Leucobryum glaucum var. *minus* = *Leucobryum albidum*
Leucobryum minus = *Leucobryum albidum*
Leucobryum vulgare = *Leucobryum glaucum*
Leucodon sciuroides = *Leucodon brachypus* var. *andrewsianus*
Lindbergia brachyptera var. *austinii* = *Lindbergia brachyptera*

Meesia hexasticha = *Meesia longiseta*
Merceya ligulata = *Scopelophila ligulata*
Microbryum floerkeanum = *Phascum floerkeanum*
Mniobryum albicans = *Pohlia wahlenbergii*
Mniobryum wahlenbergianum = *Pohlia wahlenbergii*
Mnium ciliare = *Mnium affine* var. *ciliare*
Mnium flagellare — 362 (a legitimate species, but the report from Illinois is absolutely impossible)
Mnium orthorrhynchum = *Mnium thomsonii*
Mnium rostratum = *Mnium longirostrum*
Mnium rugicum = *Mnium affine* var. *rugicum*
Mnium serratum = *Mnium marginatum*
Mnium trichomanes — 49 (a legitimate species, but the report is referable to *Mnium cuspidatum*)
Myurella careyana = *Myurella sibirica*

Neckera cladorrhizans = *Entodon cladorhizans*
Neckera filiforme = *Pterigynandrum filiforme*
Neckera pseudalopecura = *Leucodon julaceus*
Neckera sedutrix = *Entodon seductrix*

Octodiceras debilis = *Fissidens fontanus*
Octodiceras hallianum = *Fissidens fontanus*
Orthotrichum canadense = *Orthotrichum anomalum*
Orthotrichum crispulum = *Ulota crispa*
Orthotrichum cupulatum = *Orthotrichum strangulatum*
Orthotrichum fallax = *Orthotrichum pumilum*
Orthotrichum fallax var. *truncatulum* = *Orthotrichum pumilum*
Orthotrichum porteri = *Orthotrichum strangulatum*
Orthotrichum schimperi = *Orthotrichum pumilum*

Pharomitrium exiguum = *Pterygoneuron subsessile*
Pharomitrium subsessile = *Pterygoneuron subsessile*
Phascacea triquetrum = *Acaulon triquetrum*
Phascum alternifolium = *Archidium alternifolium*
Phascum crassinervium = *Ephemerum crassinervium*
Phascum cohaerens = *Ephemerum cohaerens*
Phascum cuspidatum var. *americanum* = *Phascum cuspidatum*
Phascum nitidulum = *Astomum muhlenbergianum*
Phascum patens = *Physcomitrella patens*
Phascum schimperianum = *Acaulon schimperianum*
Phascum strangulatum = *Physcomitrium pyriforme*
Phascum subulatum = *Pleuridium subulatum*
Phascum sullivantii = *Astomum muhlenbergianum*
Philonotis caespitosa = *Philonotis fontana* var. *caespitosa*
Physcomitrium acuminatum = *Physcomitrium pyriforme*
Physcomitrium australe = *Physcomitrium pyriforme*
Physcomitrium drummondii = *Physcomitrium pyriforme*
Physcomitrium pyriforme var. *serratum* = *Physcomitrium pyriforme*
Physcomitrium turbinatum = *Physcomitrium pyriforme*
Plagiomnium affine var. *ciliare* = *Mnium affine* var. *ciliare*
Plagiomnium ciliare = *Mnium affine* var. *ciliare*
Plagiomnium cuspidatum = *Mnium cuspidatum*
Plagiomnium medium = *Mnium medium*
Plagiomnium rugicum = *Mnium affine* var. *rugicum*
Plagiothecium deplanatum = *Taxiphyllum deplanatum*
Plagiothecium elegans = *Isopterygium elegans*
Plagiothecium geophilum = *Taxiphyllum taxirameum*
Plagiothecium micans = *Isopterygium tenerum*
Plagiothecium micans var. *albulum* = *Isopterygium tenerum*
Plagiothecium muellerianum = *Isopterygiopsis muelleriana*
Plagiothecium pulchellum = *Isopterygium pulchellum*
Plagiothecium roeseanum = *Plagiothecium cavifolium*
Plagiothecium silesiacum = *Herzogiella striatella*
Plagiothecium silvaticum = *Plagiothecium cavifolium*
Plagiothecium sylvaticum = *Plagiothecium cavifolium*
Plagiothecium sylvaticum var. *sullivantii* = *Plagiothecium cavifolium*
Pleuridium acuminatum = *Pleuridium subulatum*
Pleuridium alternifolium = *Pleuridium subulatum*
Pleuridium alternifolium var. *robustum* = *Pleuridium subulatum*
Pogonatum brevicaule = *Pogonatum pensilvanicum*
Pohlia carnea = *Pohlia melanodon*
Polytrichum commune var. *uliginosum* = *Polytrichum commune*
Polytrichum decipiens = *Polytrichum palldisetum*
Polytrichum gracile = *Polytrichum longisetum*
Polytrichum juniperinum var. *affine* = *Polytrichum strictum*
Polytrichum juniperinum var. *gracilius* = *Polytrichum strictum*
Polytrichum juniperinum var. *rubrum* = *Polytrichum juniperinum*
Porotrichum alleghaniense = *Thamnobryum alleghaniense*
Pottia exigua = *Pterygoneuron subsessile*
Pottia exiguum = *Pterygoneuron subsessile*
Pottia randii = *Desmatodon randii*
Pottia subsessile = *Pterygoneuron subsessile*
Pottia truncatula = *Pottia truncata*
Pterigoneuron subsessile = *Pterygoneuron subsessile*
Pylaisia denticulata = *Pylaisiella polyantha*
Pylaisia polyantha = *Pylaisiella polyantha*
Pylaisia schimperi = *Pylaisiella selwynii*
Pylaisia splachnoides = *Anacamptodon splachnoides*
Pylaisia subdenticulata = *Pylaisiella polyantha*
Pylaisaea intricata = *Pylaisiella intricata*
Pylaisaea velutina = *Pylaisiella intricata*

Raphidostegium adnatum = *Sematophyllum adnatum*
Raunia scita = *Thuidium scitum*
Rhacomitrium heterostichum var. *sudecitum* = *Rhacomitrium heterostichum*
Rhacomitrium sudeticum = *Racomitrium heterostichum*
Rhizomnium punctatum ssp. *chlorophyllosum* = *Mnium punctatum* var. *punctatum*
Rhynchostegiella compacta = *Conardia compacta*
Rhynchostegium compacta = *Conardia compacta*
Rhynchostegium hians = *Eurhynchium hians*
Rhynchostegium pulchellum var. *praecox* = *Eurhynchium pulchellum*
Rhynchostegium pulchellum var. *pulchellum* = *Eurhynchium pulchellum*
Rhynchostegium riparioides = *Eurhynchium riparioides*

Schistidium agassizii = *Grimmia agassizii*
Schistidium alpicola = *Grimmia rivularis*
Schistidium apocarpum = *Grimmia apocarpa* var. *gracilis*
Schistidium convertum = *Grimmia rivularis*
Schwetschkeopsis denticulata = *Schwetschkeopsis fabronia*
Sematophyllum carolinianum = *Sematophyllum demissum*
Sharpiella turfacea = *Herzogiella turfacea*
Sphaerangium muticum = *Acaulon muticum*

Sphaerangium schimperianum = *Acaulon schimperianum*
Sphaerangium triquetrum = *Acaulon triquetrum*
Sphagnum acutifolium = *Sphagnum capillifolium*
Sphagnum angustifolium = *Sphagnum recurvum* var. *tenue*
Sphagnum capillaceum = *Sphagnum capillifolium*
Sphagnum capillifolium var. *tenerum* = *Sphagnum tenerum*
Sphagnum contortum = *Sphagnum subsecundum* var. *contortum*
Sphagnum cymbilifolium = *Sphagnum palustre*
Sphagnum lescurii = *Sphagnum subsecundum* var. *rufescens*
Sphagnum nemoreum = *Sphagnum capillifolium* var. *capillifolium*
Sphagnum platyphyllum = *Sphagnum subsecundum* var. *platyphyllum*
Sphagnum rubellum = *Sphagnum capillifolium* var. *tenellum*
Sphagnum subtile = *Sphagnum capillifolium* var. *tenellum*
Sphagnum trinitense = *Sphagnum cuspidatum* var. *serrulatum*
Stegium crispum = *Astomum muhlenbergianum*
Stegium nitidulum = *Astomum muhlenbergianum*
Stegium sullivantii = *Astomum muhlenbergianum*
Stereodon arcuatus = *Hypnum lindbergii*
Stereodon haldanianus = *Callicladium haldanianum*
Stereodon pratense = *Hypnum pratense*

Thamnion alleghaniense = *Thamnobryum alleghaniense*
Thuidium elodioides = *Helodium blandowii* var. *elodioides*
Thuidium microphyllum = *Bryohaplocladium microphyllum*
Thuidium philebertii = *Thuidium delicatulum* var. *radicans*
Thuidium pygmium = *Thuidium pygmaeum*
Thuidium virginianum = *Bryohaplocladium virginianum*
Tortella caespitosa = *Tortella humilis*
Tortula marginata = *Tortula muralis*
Tortula rigida = *Aloina rigida*
Tortula stellata = *Aloina rigida*
Trichostomum pallidum = *Ditrichum pallidum*
Trichostomum rigidulus = *Didymodon rigidulus*
Trichostomum tophaceus = *Didymodon tophaceus*
Trichostomum tortile = *Ditrichum pusillum*

Ulota crispa var. *crispulum* = *Ulota crispa*
Ulota crispula = *Ulota crispa*

Webera lescuriana = *Pohlia lescuriana*
Webera nutans = *Pohlia nutans*
Webera albicans = *Pohlia wahlenbergii*
Weissia controversa var. *wolfii* = *Weissia controversa*
Weissia microstoma = *Weissia hedwigii*
Weissia mucronata — 187?, 383 (a European species probably referable to *W. controversa*)
Weissia muhlenbergiana = *Astomum muhlenbergianum*
Weissia viridula = *Weissia controversa*
Weissia viridula var. *gymnostomoides* = *Weissia controversa*
Weissia wolfii = *Weissia controversa*

BRYOPHYTE TYPES FROM ILLINOIS

The following seven species have their type locality in Illinois. However, all are currently recognized as synonyms with the correct name listed. Also given is the location, voucher data, and reference.

Conomitrium hallianum (= *Fissidens fontanus*) Fulton Co. (*E. Hall s.n.*) in Ireland & Ley 1984

Dicranum bonjeanii var. *alatum* (= *Dicranum scoparium*) Chicago [Cook Co.] no specimen cited, in Barnes 1897

Eurhynchium strigosum var. *robustum* (= *Eurhynchium pulchellum*) vicinity of Chicago [Cook Co.] (*Grout 131*) in Grout 1928

Fabroleskea austini (= *Lindbergia brachyptera*) Illinois (no county listed) (*Wolf s.n.*) in Best 1898

Fissidens hallianus (= *Fissidens fontanus*) Menard Co. (*Hall s.n.*) in Grout 1936 and 1943

Leskea austinii (= *Lindbergia brachyptera*) Fulton Co. (*E. Hall s.n.*) in Ireland & Ley 1984

Lindbergia brachyptera var. *austinii* (= *Lindbergia brachyptera*) Illinois (according to Best) no specimen cited, in Grout 1934

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